

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6906	37274	A	6957	2	1025	WRRYQANGK*KNK/QKKAGV VILVSDKTDFKPTKIKRDKEGH YIMVKGSIQQEELTVLNIYAPN TGAPRFMKQVLRDLQRDLDPH TTIMGDFNTPLSTLDRSARQKV NKDIQELNSALHQADLINIYRIL HPKSTEYTFISAPHRITYSKIDHI VGRKALLRKYKRTETDCLSD HSAIKLELRIKKLTQNSSTTWK LNNLLNDYWIHNKTKAEIKM CFETSENKDTTYQNLWDTCCKA VCREKFIALNAHKRQKERSKID TLTSQLKE/LEKQEQTTHSKASRR NLEEMDKYLDYTLPRNLNQQE FESLNRPTGSEIEAIINSLPTKKS SGPDGFTAKFYQ
6907	37275	A	6958	1	1661	
6908	37276	A	6959	2	1632	WRKIYQANGK/HKKAGVAIRV SDKTDFKPTKIKRDKEGHYLM VKGSIQQEELTILNIYATNTGAP GFIKQVLSLQRLDSHTIIMED FNTPLSTLDSMRQKVNKDTQE LNSALHQEDLIDIYRTLHPKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRIKNLTQSRSTTWKLNNLLN DYWVHKEMKADIKMFFETNES KDTTYQNLWDAFKAEELES LN RPITASEIVAIINSLPSKKSPGPD GFTAKFYQRYKEELVPFLKLKLF QSIEKEGILPNSFDEASIIIPKLG RDTTKKENFRPISLMNIDAKILN KILANQIQHIKKLIHHDQVGFI PGMQGWFNIHKSINVQHINRT KDKNHMIIISIDAEKAFDKIQQSF MLKTRNKLIGDGYLKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLAIRQ EKEIKGIQLGKEDVKLSLFADD MIVYLENPIVSAPNPLKLISNFS KVSGYKINVQKSQAFLYTNNR
6909	37277	A	6960	1	2169	

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6910	37278	A	6961	2	1255	EGKFRENRIKRNEQSLQEIWY VKRTNLRLLIGVPESDWENGTKL ENTLQDIIQENFPNLR*AKIQRI RSQDPSTHLTSRDTHRLKIKGW RKIYQANGKQKKA AVTILVSD KTNFKPTKIKRDNEGHYIMVKG SNQQEELTILNIYAPNTGAPRFI KQVLRDLQRDLDSHTIITGDINI PLSTLDRSTKQKVNKDTQELNS ALHQVDLIDIYRTLHPKSIETYF FSAPHHTYSKVDHILGSKALLS KCERIEITNCLSDHSAIKLELRI KNLTQNHSTWKLNNLFLNDY WVHNEMKAEIKMFFETSENKD TTYQNLWDAFKAVCRGKFIAL NAHKRKQERSKIYTLTSQKEL EKQEQTHSKASRRQEIIKIRAE KEIETQKTLQKLNESISHQLEW QSLKSQKTTGAGEDVEK
6911	37279	A	6962	1	1122	
6912	37280	A	6963	551	1536	EILSPGPLPYKSS*KKH*TWKGT TGTS CC/INHAKIVTHRLKIKGW RKIYQANGKQKAGVANLVSD KTDFKPTKIKRDKEGHYIMVKG SIQQEELTTLNIYAPNTGAPRFI KQVLS DLQRDLDSHTLIMGDFN TPLLT LDRSTRQKVNKDTQELN SALHQADLIDIYRTLHPKSTEYT FFSAPHHIYSKTDHILGSKALLS KCKRTEIITNYLSHSAIKLELRI KNLTKNRSTWKLNNLLNDY WVHNEMKAEMKMFFETNENK DTTYQNLWDTFKAMCRGKFIA VNAHKRKQERSKIDTLTSQKEL LEKQEQTHSKASRRQEITKI
6913	37281	B	6964	28	1209	
6914	37282	A	6965	1	1284	
6915	37283	B	6966	1	1056	
6916	37284	B	6967	124	963	
6917	37285	A	6968	3	1162	
6918	37286	A	6969	1	1364	
6919	37287	A	6970	1	1003	
6920	37288	B	6971	1	1129	

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6921	37289	A	6972	1	1917	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSLQRLDLSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTQNHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTYHNLWDTFKAVCRGK FIPLNAHKRKQERSKIDTLTSQL KELEKQEQTTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRLLARLIKKKREKNQI DAIKNDKGDITTDPTIEIQTIRE YCKHLYANKLENLEMDKFLD TYTLPRLNQEEVESLNRPIGAE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELVPFLKLKFSIEKE GILPNSFYEASIIIPKPGRDTTK KENFRPISLMNIDAKILNKKLA KRIQQHIKKLIHHDQVGFIIPGM QGWFNIRKSINVIQHINRAKDK NHMHSIDAEKAFDKIQPFMLK TLNKL\GIKYLGIHLTRDVKDLF KENYKPLLKEIKEDTNKWKNI CSWVGRINIVKMAILPKMCL*R RWTPLCLLTAAASLNRE*ERLV QPLLWRQMYCGPRHCRQVPQH RRLNWSPSLRLS
6922	37290	A	6973	1	2673	

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6923	37291	A	6974	261	2667	TWCSGRYMGVCR/DWHLLL V/KGLRKLTI VAEGEGAGMSLG ESGNKKIRDKEGHYIMVNGSIQ QEELTILNIYAPNTGAPRFIKQV LRDLQRDLDSHTIIMRDFNTPLS ALERSTREKVNKDIQELNSALH QADLVDIYRTLHPKSTEYTFFS APHRTYSNIDHIVGSKALLSNC KRTEITKCLSDHSTIKLELRIKK LTQNRSTTWKLNNLLNDYWV HNEMKAEIKMFFETIENKDTTY QNLWDTFKAECRGKFIALNAH KRKQERSKIDTLTSQLKELEKQ EQTHSKASRRQEITKIRAEK ETQKTLOKINESRSWFFERINKI DRPLARLIKKKREKNLIDAIKN DKGDIITDPTEIQTIREYYKHL YANKLENLEEMDKFLDTYTL PRLNQEEVESLNR PITGSEIVAIIN SLPTKKSPGPDGFTAEFYQRHT VSILISYCQGGSLMSQVYWNQQ EKPPSSSNAPPGLSVNKAQHRH VCCRGEMLKRVQVHYVRAGES DSASFHCVAQGPRAFGKPLILS KENHLLTVTAIAKLNHKLCEIK SMGVFINTEPLYDSCLEQKHAL FASPPATTHSTTMISKAKVIPML SLTPGSFQTVESLAPSAGKFQG TETSSLKTLINLCCPKLPSPSPA HLGGLPGGSQERPSRQYLYESA RTTVLLGLGCPLKQIQLRSQHS SPLEYLES LPPKKDRKKREKIQIN

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6924	37292	A	6975	1	1687	MLKGSIQQEELTVLNIYAPNTG APRCIKQVLSQVQRDLDSNTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNSLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETKENKDTTYQNLWDAFKAVC RGKFIALNAYKRKQERSKIDTL TSQLELEKQEQTSHSKEIQTIR EYYKHLTYTNKLENLEEMDKFL DTYTLPRLNQEEVESLNRPIITGS EIVAIINSLPTKKSPGPDGFTAEF YQRYKEEMHINRAKDKNHMIIS IDAEKAFDKIQPFMLKTLNKL GIDGTYFKIIRAIYDKPTVNIILN GQKLEAFPLKTGTRQGCPLSPL LFNIVLEVLARAIQKEKEIKGIQ LGKEEVKLS\LFADDMIVYVEN PLPSQPQNLL*GWLSNFSK/MSS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQFTR DVKDLFKENYKPLLNEIKEDTN KWKNI PCSWVGRINIVK\MAILP
6925	37293	B	6976	1	2431	

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6926	37294	A	6977	1	1921	MGESVQSLTLAQKRSMMIQV AVAPRTPTLLKLYKEKASKTQ LKKVNLVVQDQGSLESIEVHD HEPADTYKLLSLVKEPAEEIPR VIQNVFGHRSKKENLKDSYGLR QSSTMVATTWNNVSLMQHHSL RRPNRHLTASYPHFHFQEIPVNF FHSGRDSSEFGWNQHIKKDKE GHHIMVKGSIQQEELTMLNIYA PNTGAPRFINQVLSDIERDLDSH KIIMGDFNTPLSTLDRSTRQKV NKDTQELNSALHQADLTDIYRT LHPKSTEYTLFSAPHHTYSKIDH IVGSKALLSKWKRTIITNCLSD PRAIKLELRIKKLTQNRSSIWKL NNVLLNDYWVHNEMKAEIKIF FETNENKDTSCQNLWDTFKAV CRGKFIALNAHRRKQERSKIDT LTSQLKELEKQERTHSKASRRQ EITKIRAEMKEIETQK\TLQKINE SRSWFFEKINKIDRPLARLIKKK REKNQIDAIKNNKGDITTDPTI ETTIREYYKHLYTNKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEVVAIINSLPTKKSPGPDG FTAEFHQRYKEKLISELLPMPN HTALKKQTQDLSDCKAMFLYY QSVSVQTAIINYHRLRGLNNRN LFLTVLEYSSLRSGCEHSRVL

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6927	37295	A	6978	1	1848	MSLTkMLICAALLGLFCMLLGL RWQVAELIGMTLALSSTAIA QAMNERNLMVTQMGRSAFAV LLFQDIAAIPLVAMIPLLATSSA STTMGAFALSALKVAGALVLV VLLGRYVTRPALRFVARSGLRE VFSVALFLVFGFGLLLEEVGL SMAMGAFLAGVLLASSEYRHA LES DIEPFKGLLLGAVFTPRVVV NIYSSSELRTAKNYQANGKQKK PGVAILVSDKTAF/KPTEIKRDK EGHY\IMVKGSIQQEELTILNIY APNTGAPRFIKQVLSDLQRDL SHTLMMGDFNTPLSTLDRSTR QKVNKDTQELNSALHQADLIDI YRILHPKSTEYTFFSAPHHTYSK IDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRIKNLTQSRSTT WKLNNLLLNDYWVHNEMKAE IKMFFETNENKDMTYQNLWDT FKAVCRGKFIALNAHKRKQERS KIDTLTSQLKELEKQEQTTHSKA SRRQEITKIRAELEIETQKAIQ KINESRSWGPPGNCQQNYRNSE SGEKSAPEGQAQAHAGPTEGKV PTFLYVGKEKFPPSYLLTRKSSH LPTCGDPICGEKCWRVPTTSGQ GNKADQWGGVIGDTHDSA
6928	37296	A	6979	1	2235	
6929	37297	A	6980	1	2955	

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6930	37298	A	6981	3	2156	KSLKDLMELEKIMAEQELCDEWT SLSSRCNQLEERSVMEDEM EMKDKHRPKIKWRKIYQANG QQKKTRVANLVSDKTEFKPTKI KRDKEGHYIMVKGSIQQEELTI VNIYAPNTGAPRFIKKVLSDLQ RALDSHTIIMGDFNTPLSTLDRS TRQKVNKDIQELNSALHQADLI DIYRTLHPKSTEYTFFSAPHYTY PKIDHIVGSKALLSKCKRTEIIT NCLSDHSAIKLELKIKKLTQNL STTWKLNLLKDYVWHKEM KAEIKMFFETNKNKDTTYQNF WDTFKA VCRGKFIALNAHKRK QEGFKIDTLTLQLKELEKQEQT HSKASRRINKIDRPLARLIKRR EKNQIDTIKNDKGDITDPTIEIQ TTIREYYKHL YANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGAEIVAIINSLPTKKSPGPDG FTAKFYQRYKEELVPFLKLQF SIEKEGILPNSFYEASILIPKGR DITKKENFRPISLMNIDAELNKI LASMQMQHIKKLIYHNQVGFH GMQGWFNHKSINVIQHINRTK DKNHTIISLDAEKAFDKIQPF MLKLTNLKLGIDGMYLKIIRA IYDKPTANIILHWQKLEAFPLKT GTRQGCPLSPLFNIVLEVLR AVRKEKEIKRTQIGREEIKSLF ADDMIVYLENPIVSAQNLLKLIS NFTKVSGYKINVKKSQAFLYN
6931	37299	A	6982	3721	8717	MLPIKRHRLANWIKSQDPASVC CIEETHLTCRDAHRHKIKGWR KIYQANGKQNKTKQKKQGLQ ILVSDKRDFKPTIKRDKEGHYI MVKGPIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDH SAIKLKLRIKNLTQNHSTTWK LNNL

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6932	37300	A	6983	599	1074	NPRAW EKQPPTSPQEFCLVCF VVHLQKSTREALNNKNIKPLLS TFSQVPG/SINHSSCENVLAHSL AIGGVTEGICTASTPFVLLGDVL DCLPLDQCDTIFTFVEKNVATW KSGTASLPAAFMAGVEHLWLF QVNGANCQWIYPSGVWRTVAL FSQLH
6933	37301	A	6984	1	312	
6934	37302	A	6985	2	484	QSRALLW PMLVDVIQPKPWKA PGSLGLPSCISAITVQSSPGLRLC SCGQGPRVNTPGTKLPQPNRPV SLSFSQMKLLTSSHWKSFHCPA *INPAQSSPGPWP*PQLSGCPAF QFLSFG*KSLSSGNTASSSPLW FLCWCFLNLVLQAKLPDGF RPA HRV
6935	37303	A	6986	234	405	ELKICSCDPITVRYNADDSTVSL SFSQMKLLTSSHWKSFHCPA*I NPAQSSPGPWP
6936	37304	A	6987	1	2021	PTRPAAAQWRARAAEKMSPTP PLFSLPEARTRFTKSTREALNNK NIKPLLSTFSQVPGSENEKKCTL DQAFRGILEEEIINHSSCENVLAI \ISLAMGEVTEGICTASTHFVLL GDVLDCLPLDQCDTIFTFVEKN VATWKSNTFY SAGKNYLLRMC NDLLRRLSKSQNTVFCGRIQLF LARLFPLSEKSGNLQSQFNLE NVTVENTNEQESTLGQKHTED REEGMDVEEGEMGDEEAP TTC SIPIDYNLYRKFWSLQDYFRNP VQCYEKISWKTFLKYSEEVLAV FKSYKLDDTQASRKKMEELKT GGEHVYFAKFLTSEK LMDLQL SDSNFRRHILLQYLILFY LKQG VKFKSSNYVLTDEQSLWIEDTT KSVYQLLSENPPDGERFSKMVE HILNTEENWNSWKNEGCPSFV KERTSDTKPTRIIRKRTAPEDFL GKGPTKKILTGNEELTRLWNLC PDNMEACKSETREHMPTLEEFF EEAIEQADPENMAENEYKAMN NSNYGWRA LKLLARRSPHFFQP TNQQFKSLQEYLENMVIKLAKE LPPPSEEIKTGEDEDEEDNDALL KENESPDVRRDKPVTGEQIEVF ANKLGEQWKILAPYLEMKDSEI RQIECDSEDMKMRKQLLVAW QDQEGVHATPENLINALNKSGL SDLAESLTNDNETNS

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6937	37305	A	6988	155	811	EFYRTGKVHRAPGVQEVTEDP RDPLAQLATRDKERRGSLDH LALRVREAQLDQLVPPESVAA KDLKAPRAPKAPVVPPLGSPALR APVGTQAPRAHQAKRDSPALR ALLASRDFRAPLGSGLCLDLGD CQACLG YQACQAPRAPPALLA HQERWCPWPCRMSQPQHRRT MAARLTGRTSQTNATIFQLRKK FLRMQSFSVKTS LHILFS*TLER NSNG
6938	37306	A	6989	91	918	
6939	37307	A	6990	199	380	CSTSSRTY*IPSRFCFSKG*HWRH TVNSNFGPMGNPSHPTTSSAHH TVPLIESQPSSTSKK
6940	37308	A	6991	1	483	
6941	37309	A	6992	178	298	
6942	37310	A	6993	864	1298	RLQNRTILASDLGSDRWRRTY RCL*RHGPRFSSCRLSCRPFDK TCRLMCHQRLSGFPQEQTQRDS RCIQLLFRQRF AAASCP THQVH VHRWRKPMVFLILESDLKYTV LSLPEECHTGAHEQSSHCLLLSL ASVDVHCSQRP
6943	37311	A	6995	2	348	KKKRKKKIEEEEEEEEEEEEEEE\ REEEGDEEQEEEEEE\EEEEEEEE EEEEEEEEEEEDDDDDNGLLQTL PGLHEMRVNLTRSDGIISVWHF PFWHFSFLMPYEEGALLRLHLP
6944	37312	A	6996	1	192	
6945	37313	A	6997	1	507	MEKNEKEQEEEEKKEKNSKKK EEEEEEEGGEEEEEGEGGEE EEEEEEEEEEEEEEEEEEEEEE EEE/DKEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEE\EEEEKVVE EEDEFIWFLGNSLYFPSFSHFA WSQIPSREDEGERRLRVNSMIM DFTSNTNHVQLIVAR
6946	37314	A	6998	1	257	MGPIHKISHYVYANISKSEKVL KSEHFRSQAQPGQQSETVSEK/ EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEI
6947	37315	A	6999	1	156	
6948	37316	B	7000	1	757	
6949	37317	A	7001	1	279	

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6950	37318	A	7002	1	1226	MPSSKGVHVSPPRYLAAKDF KMINKELTAATFMEVIAEDNRF IYDGIDSNFEPELVFLEFFEALLS FAFICVTDQMTKSYTNVPADD VSGNKHETIYTILNQDAQNKSP SAVMSHESDAAHSDSARSSSSK LELSPDVNKIRKSEAMVKEKKK ADKKGEKSARSPPSLSDNLDPS KQDGNTRQEMSPAGVPLLGM QLNEVKPKKDRQNVQQNE/GC HPIRRVHSDQTHSGKL*RGKGS W/DCMREKASQPFKAVVPIV*V /VPFENLQEGEEGRCLCEECPEP RRVHVAGRSMYEGEVVNGMR NGFGMFKCSTQPVSYIGHWCN GKRHGKVGEVATWRAEKKKK EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEKIRP
6951	37319	A	7003	3	123	
6952	37320	A	7004	2	458	
6953	37321	A	7005	239	432	CLWLFQEEEEEEEEEEEEED*EEE EEE/EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEKIFLGHRVGI
6954	37322	C	7006	7	162	
6955	37323	A	7007	39	2154	
6956	37324	A	7008	1	639	
6957	37325	A	7009	1	651	
6958	37326	B	7010	1	684	
6959	37327	A	7011	3	428	TRFQGVYLP LLWEQSF/CWKSPI ALGYTRGHFSALVAMENDGYG NRGAGANLNTDDDVITFLPLV DSERKLLHVHFLSAQELGNEEQ QEKLLREWLDCCVTEGGVLVA MQKSSRRRNHPLVTQMVEKW LDYRQIRPCTSLF
6960	37328	A	7012	2	800	

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6961	37329	A	7013	1	930	DHNSSPAMEQNW MENAFDELT EVGFRRWVITNFSKLKEHVL TQ CKEAKKLEKRLEELLTRITSLEK NINDLMELKNTS QELREAYTTE ERISEIEDQLNEIKHEDRIREK/R/ VKRNEQSLQEIW DYVKRPNLH LT/GVPESDGENG TKLENTLQDI IQENFPNLARQ ANIQEIQRTP QRYSSRRATPRHIIIRFTKVEMK EKMLRAAREKGQVTHKGKPIR LTADPLAETLQARREWGPIFNIL KEKNFQHRMSYP AKLSFISVGE IKYFTDKQMLRDFVTT RPALQE LLKDALNMERN NQNQSLQKHA KL
6962	37330	A	7014	1	870	
6963	37331	A	7015	1	585	
6964	37332	A	7016	1	1032	
6965	37333	A	7017	2	770	
6966	37334	A	7018	1	2910	
6967	37335	B	7019	239	462	
6968	37336	A	7020	3	694	
6969	37337	A	7021	1	1212	
6970	37338	A	7022	1	1140	
6971	37339	A	7023	1	570	
6972	37340	A	7024	1	486	
6973	37341	A	7025	1	1476	MEVNREKQLNELEVIGSEEQNL EEGLMIGGVAVRLVPDDIVIP GGVNATNGTEARDALRVKVA MSVTLLSGIIQYLLSALGWSYY TVDGVSQKNPRALGVTADQLH AIFTTMSDEQASFRFGFVAIYLT EPLVRGFTTAAAVHVFTSM LK YLFQVKT KRYSGIFS VVYSTVA VLQNVKNLNVCSLGVGLMVFG LLGGKEFNERFKEKLPAPIPLE FFADHNSSPAREQKWMENEFD EWTEVSFRRWVITNSSELKEHI LTQCKEAKNLEKRLEELLTRITS LEKNINDLMELKNTAQEFHEA YTSINS/RNQTEERVSEIEDQLN EI*CKDKIR\ EKKRMKRNEQSLQ EIWDCVKRPNLRLTGVPESDGE NGTKLENTLQDIIQENFHNLAR QANSQIQEIQRTPQRYSSRRATP RHIIIRFTKVEMKEKMLRAARE KGRVTHKG NPIRLIADLSADTL QARRQWEP IFNILKENFQTRISH
6974	37342	A	7026	1	1080	

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6975	37343	A	7027	1	3501	MIVYLENPVSAQNLLKLISNFS KVSGYKIYKIDVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY PGIQLTRNVKDLFKENYKPLLN EIKEDTNKWKNIPCSWIGRINIV KMAILPKVIYRFNAIPIKLPMTS FTELEKTTLKFIWNQKGARIAK TILSKKNKVGGITLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEASEITPPIYNHLIFDKPDKN KKWGKDSL FNKWCWENWLAI CRKCLKDPFLTS
6976	37344	A	7028	164	714	IGVNRHLIQESPSWNLGAPLE QIFQRKEQAAIFAILQPLLVISRQ TGSGVDPQQTPADLQK/SGSDS REQNKTENEFDELTEIGCRRWV ITNSSELKEHVVTQCKEAKNLE KMLQELLTRITSLEKNINDLME LKNTAQELREAYTIINSQTDQA EERISEIEDQLNEIKGEDNIREKT VKRNE
6977	37345	B	7029	1	579	
6978	37346	A	7030	1	927	
6979	37347	A	7031	1	1362	MAAGRHLPGADRHLIQESTG WHLGAPLGWSFQRKEQTAIF AVLQPLLVIPRQTGYGVDLQQ MPADLQQRFLT VRRKTNKQKG IVSTSTKRTSSEGHQHQRKVD KFTENGRNQHKKAENSKNQ ASSPDKDHNSLPAREQNWTE N EFDELTEIDFRRWVITNSSQTKG SMF*P*CKEAKNLEKRLDELLT RITSLEKNINDPMELKNTAREL REANKSINS*IDQGRKERVASEIE DQLNEIKREDKIREKRMQRNK QTLQEIWVYVCRPNLHLIGVPE SDRENGTKLENTLQDIIQENFP NLARQANIQIEIQRTPQRYSSR RATPRHIVRFTKVEMKEKMLR AARKKGQVTHKGKSIRLSADFS AETLQARREWGPIFNILKEKNF QPKISYPAKLSFISEEEITSFTDK QTLRDFVTTRPALQELLKEAVN MERKNQYQPLQKHTKM
6980	37348	A	7032	1	598	
6981	37349	A	7033	3	787	
6982	37350	A	7034	61	284	RLLEPQGGLRAGSSPAGK/IGGT LERRGMPWPGP/HSEGGLSPLL LGASLAAAPHGEMPSVRVHPV RPSSRDCCSSRV
6983	37351	B	7035	743	1683	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6984	37352	A	7036	1	1137	
6985	37353	A	7037	1	663	
6986	37354	A	7038	1	197	
6987	37355	A	7039	1	291	
6988	37356	A	7040	3	342	
6989	37357	A	7041	1	439	
6990	37358	A	7042	3	253	
6991	37359	C	7043	1	210	
6992	37360	A	7044	1	165	
6993	37361	A	7045	1	346	
6994	37362	A	7046	1	389	
6995	37363	C	7047	1	464	
6996	37364	A	7048	1	1806	
6997	37365	A	7049	491	1640	
6998	37366	A	7051	188	383	
6999	37367	A	7052	1	759	
7000	37368	A	7053	1	1683	
7001	37369	A	7054	1	972	
7002	37370	A	7055	1	429	
7003	37371	A	7056	3	753	DQTFWGLLETG/S/ELMLIPGDP KCHCGPPVKVGAYGGQEIKGV LAQVQITVGPVGTTRHPVVISP VPECIIGIDILSSWQNPHTGSLTG RVRVIMVEKAKWKPLELPLPR KIVNQKQYCIPGGIAEISATIKD LKDTGVMIPPTSPFNPIWPVQ KTDGSWRITVDYQVVTPIAAA VPDVVSLLEQINTSPGTWQHIT HLDVLLWRIYQVTQKAASFWE GPEQEALQQVQAQVQA/LCH LGHMTQQIQWCL
7004	37372	A	7057	2	430	
7005	37373	A	7058	1	1515	

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7006	37374	A	7059	1	1523	MGEERRWRPSSNGKHGAFAEL DKGWLWVLEGKGVIGARRSW RAHSALIKICVQQIKDSLPGKM SKGLLQQQKPKHLLHDLYKA MSTRWGVQKARLNCTALPPTG CVTLDPSTLTPQFPRQLSEDLL LTREALEKEVQLRRQLQQEKEE LLYRVLGANASPAFPLAPVTPT EVEKERELELRDRLDEQQRVLE GKNEEALQDPRLVDPLTSCTVH FEKPQMLNARLWKHAGREAV ACKVRGSELPKTMGTYPLHQH DL DVRHGVKGDHFGALRFDCP AGFWTCMGPLAPSWPISPIWN GPPLDISGYPATSTQKSTMCLRI IDTRLHPESRLKQQSNFALNAR EKALQQVQAAVQAAALPLGPYD PADPMVLEVSLADRDAVWSL WQAPIGESQQRPLGFWGKALPS SADNNSPLERQLLARYWALVE TEYLTMGHQVTM*P/ELPIMNW VLSDPSSHVVYA WQHSIIKW K\DR A*AGLAGTSKLHEEVAQ MPIVSTPATLPSCRIL
7007	37375	A	7060	1	2190	
7008	37376	A	7061	286	430	
7009	37377	A	7062	205	514	LWSLCAPVLQVPCLRAAFVFT RRHAPSAGRGFTRSYVSAGSW TETQQGLWGSCLKGADGLLL GISKHLVEFLQIFQISGCWGHYC YLQILFFALNSISPSYHVLLFNV QFGFIFNFMVLCVP*AGTHIAPC KSSSRTRGMSSCENWKGCSKA RHLQYWSTKTPQSLSFCCGIH FVTAVCQP
7010	37378	A	7063	1	487	
7011	37379	A	7064	1	1212	
7012	37380	A	7066	140	453	
7013	37381	A	7067	1	3341	MGKKQNRKTGNSKNQSASPPP KERSSSPATEQSWMENDFDEL EEGFRLSNYSELPEDIQTKGKE VENFEKNLEECITRITNKRNFKP TKIKRDKEGHYIMVKGSIQQEE LTILNIYAPTGA PRFIKQVLSDR QRDLDFHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHKSSTEYRFFSAPH HTYSKIDHLLGSKAFLSKCKRT EITNYLSDHSAIKLELRINKLTQ NRSTTWKLN
7014	37382	B	7068	1	1785	

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7015	37383	A	7069	1	1141	MVTWNFIQERNNGSGMDQCDD GGGKILDPVYILTVELTGFAKG WKMFSVKDQSVNVLGFAGYPL ITQTARKGAGKIPTWASLRQYQ KGLGSKYQLRRALRPDCALGN GQGVRYCNSLDEEEKRELKLS SQRKRENLRGNVRPFPVTMT GAICEQCGGQINGGDIASFASR AGHGVCWHPPCFVCTVCNELL VDLIYFYQDGKIYCGRHHAEC KPRCAACDEIIFADECTEAAGR HWHMKHFCCFECETVLGGQRY IMKEGRPYCCHCFESLYAEYCD TCAQHIGHAGSFIKEC/SRRLLP GEAEI/SRRATVICLVRVSVRPE AASKSPNMRRKRKRKGACPLS SVGPVIPSVP*NTQRT*RPQSRP LGAPWNPWPCLMQ
7016	37384	A	7070	1	2388	VHQYYSCLPPEKVPYVNSPGEK LRIKQLLHQLPPHDNEVRYCNS LDEEEKRELKLFSSQRKRENLR RGNVRPFPVTMTGAICEQCGG QINGGDIASFASRAGHGVCWH PPCFVCTVCNELLVDLIYFYQD GKIYCGRHHAECLEKPRCAACD EIIFADECTEAAGRHWKHF CFECETVLGGQRYIMKEGRPYC CHCFESLYAEYCDTCAQHIGID QGQMTYDGGHWHATETCFCC AHCKKSLGRPFLPKQGQIFCS RACSAGEDPNGSDSSDSAFQNA GPRSPGAVPKLARTRARRGAH AEPAQPAASEF*PAVSRRRPPVT ADGHAQPVQPDTPQPGPHLE EPGRALPLWEQDGAEPDPEPSA APRQCNIRTSYSPGGQGAGA PEMWGKHFSNPKRSSSLAMTG HAGSFIKECREDYYPGRLSQE SYSDMSSQSFSETRGSIQVPKYE EEEEEGGLSTQQCRTRHPISL KYTEDMTPTQTTPRGSME SNATGLSADGGAQRQEHL MPDLKSDSGMNVSEKLSNMGT LNSSMQFRSAESVRSLLSAQY QEMEGNLHQLSNPIGYRDLQSH GRMHQSFDGGMAGSKLPGQ EGVRIQPMSETRRRATSRDDN RRFRPHRSRRSRSDNALHL ASEREAISRLKDRPPLRARE DYDQFMRQRSFQESMGHSRRDL
7017	37385	A	7071	1	807	

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7018	37386	A	7072	500	2666	YCLRLAQVGIFPAPSRAWVPDL DPESRLCCFPSLGSLANPTAVG LEEDREQDVGTTSSRGGAWDTRI KRELEKMSEKCGGQINGGDIIV FASRAGHGVCWHPPCFVCTVC NELLVDLIIFYQDGKIYCGRHH AECLKPRCAACDEIIFADECTEA EGRHWHMKHFCCFECETVLGG QRYIMKEGRPYCCHCFESLYAE YCDTCAQHIGEAIFGSQLGPSV MRSPLFWGVGIAAALDAVLIR AHQRTQGCHHEL SALLAFEKG SEKKEEEEQGVSRSSSLKVQA QELSATEDKGHISPFWEAVYH YASGECRGPYPYSHSLRLYSQ QALPTGRGPSSQFPFCQFYCC YKKSLLCDCLSKSPALEKAMR GIDQGMQTYDGGHWHATETCF CCAHCKKSLGRPFLPKQGQIF CSRACSAGEDPNGSDSSDAFQ NA\GPRSPGAVPKLARTRARR\G AHAEPAPPAASEF*PAVSRRRP PVTADGHAQPVQPDTPQPGP HLEEPGRALPLWEQDGAEPDPE PSAAP\RQCNIRTSYSPGGQGAG AQPEMWGKHFSNPKRSSSLAM TGHAGSFIKECREDYYPGRRLRS QESYSDMSSQSFSETRGSIQVPK YEEEEEEEGGLSTQCCRTRHPIS SLKYTEDMTPTETQTPRGSME SLALSNTGKTCSVTFQAKETCR YQDAQFGKVVKARVKERQSLWS
7019	37387	A	7073	1	2239	
7020	37388	A	7074	1	282	
7021	37389	A	7075	2	430	GFGAQDPKSLALRTHCQTSGW/ SLTEQDPYNNVIRTTIEALAATL GGTQSLHTNVFDEALGLPTDFS ARIARNTQIIHQESEL CRTVDPL AGSYGGAIQQIDVAGGLAKRI EAGLSKRMIEEASAREQALIDQ GKRIVGVGT

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7022	37390	A	7076	1	1561	MVTLILYFRFYRLNGDTLRRIQI HLLDKYRKVPPEPVHADIPVGA RRFSRPCSWFLRITKRGYRRTV HAMAGQKEKLLGAGMSDYLA KPIEEERLHNLLRYKPGSGISS RVVTPENVNIVNPNATLDWQ LALRQAAGKTDLARDMLQML LDFLPEVRNKVEEQLVGENPEG LVDLIHKLHGSCGYSGVPRMK NLCQLIEQQLRSGTKEEDLEPEL LELLDEMDNVAREASKILGPKD THLRRIRRDVLATDPRPARDRR KACLHACVLRTPPLGAARAIHQ QIDEAGGMAKAI EAGLPKRMIE EASAREQSLIDQGKRIVGVNK YKLDHEDETDVLEIDNVMVRN EQIASLERIRATRDDAAVTAAL NALTHAAQHNNLLAAAVNA ARVRATLGEISDALEVAFDRL VPSQCVTGVI AQSYHQSEKSAS EFDAIVAQTEQFLADNGRRPRI LIAKMGQDGHDRGAKVIASAY SDLGFDVDLSPMFSTPEIARLA VENDVHVVGAS\SLAAGRSR
7023	37391	A	7077	1	354	
7024	37392	A	7078	1	1116	
7025	37393	A	7079	1	450	
7026	37394	A	7080	1	252	
7027	37395	A	7081	1	242	
7028	37396	A	7082	1	242	
7029	37397	A	7083	1	9228	
7030	37398	A	7084	3	664	
7031	37399	A	7085	3	718	
7032	37400	A	7086	380	1038	WTRWRASAADNLAHGRWGEG KLVVTTGASGAPDRQAARCAA SAKISWYRSKGSKHPLTPKEVE KTGWGLKIPG/MGQQQLPERV KEAARILELDGLLKRRPRELSG GQRQRVAMARAIVRDPVFLF DEPLSNLDAKLRVQMRLELQQ LHRRDQVEAMTLAQRVMVMN GGVAEQIGTPVEVDGDDTLEIL GADNLAHDAGRAEAGGDWRI RSARRSSTCAH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7033	37401	A	7087	380	920	WTRWRASAADNLAHGRWGEQ KLVVTTGASGAPDRQAARCGC IWRKISWYRSKSGSKHPLTPKEV EKTGWGLKIPG/MGQQQLPERV KEAARILELDGLLKRRPRELSG GQRQRVAMARAIVRDPVFLF DEPLSNLDAKLRVQMRLELQQ LHRRDQVEAMTLAQRVMVMN GGVAEQIGTPVE
7034	37402	A	7088	1	258	
7035	37403	A	7089	3	208	
7036	37404	A	7090	34	125	
7037	37405	A	7091	1	393	
7038	37406	A	7092	1	690	MVAPVYIRDQYSALITNIGKGD HTTFVKPNIPATGEFKGVGFLE APRGMLSHWMVIKDGIISNYQ AVVPSTWNSGPRNFNDVGPY EQSLVGTPVADPNKPLEVVRTI HSFDPCMAWVGNILLTDEAIGV RIVEALEQRYILPDYVEILDGGT AGMELLGDMANRDHLIADAIV SKKNAPGTMMILRDEEVPALFT NKISPHQLGLADVLSDLRFT\GE FPKKLPWVQA
7039	37407	A	7093	82	224	
7040	37408	A	7094	1	239	
7041	37409	A	7095	1	1062	
7042	37410	A	7096	1	221	
7043	37411	A	7097	1	1067	
7044	37412	A	7098	1	1545	
7045	37413	A	7099	1	2820	
7046	37414	A	7100	1	1223	
7047	37415	A	7101	1	3087	
7048	37416	A	7102	1	1182	MDKFLDITYTLPRLNQEEVESLN RPITGSEIVAIINSLPTKKSPGPD GFTAIFYQRYKEELVPFLKLKLF QSIEKEGILPNSFYEASIIIPKPG RDTTKKENFRPISLMNIDAKILY KILAKRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRA KDKNHMIISIDAFAFDKIQQPF MLKTLNKLALNLLKLISNFNKV SGYKINVQKSQAFLYTSNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNI PCSWVGRINIVKMAIL PKVIYRFNAIPIKLPMFTFFTELE KTTLKFIWNQKRAHIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYCYQNRHIDQWNRAPSEI TPHIYNYLIF

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7049	37417	B	7103	1	1722	
7050	37418	A	7104	1	3513	
7051	37419	A	7105	1	2546	MSELPFTIATKRIKYLGIQLKSD VKDLFKENYKPLLNEIREDTYK WKNTPCSWIGRINIMNMAILPK VIYGFNAILIKLPLTFFTELEKTT LKFTQSLKRAHIAKTILSKKNK AGGIMLPDFKLYYKATVTKTA CTIHNSKDLEPTMPSNDTLDK ENVAYIIHHGILCSHSGRVHIL CRDMDEAGNHHSRQTNTGTEN QTLHVLTHKWELNDENTWTQ GGEHHISGPVRTNNKNHMIISIG AEKAFDKIQPFMLKTLNQLGI DGTYLKIIDIFDRPIANILLNGQ KREASPLKTGTROGCPLPPLLF NIVLEILARAIHQEKEIKGIQLG KEEVKLSLFADDMIIYLENPIVS AQNLLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQILSELPF TIASKRIKYLGIQLTRDVKDLFK ENYKPLLNEIKEDTNKWKNIPC LSIGKINIMKMAILPKVIYRFNAI PIKLPMTFFTELEKTTLKFIWNQ KRARIAKTILSQKNKDGGITLPD FKLYYKATVTKTAWYQYQNR DIDQWNRTEPSEIIPHVYNHLIF DKPDKNKKWGKDSL FNKWCW ENWLAICGKLKLDPFLTPYTKI NSRWIKDLNVRPKTIKTLEENL GNTIQDIGMGKDFMSKIPKAM ATKAKIDKWNLIELKSFCTAKE TTISVNRQPTWEKIFAICLSDK GLISRIYKELKQRHKKKTNNPIK
7052	37420	A	7106	1	2575	
7053	37421	A	7107	1	875	
7054	37422	B	7108	1	3421	
7055	37423	A	7109	1	3790	MELKTKARELREECRSLRSRRN QLEERVSA MEDEM NEMKREG KFREKRIKRNEQSLQEIWYVK RPNLRLIGVPESDAENGTKLEN TLQDIIQEDFPNLARQANVQIQE IQRT PQRYSSRRATPRHIIVRFT KVEMKQKMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTE
7056	37424	A	7110	134	307	

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7057	37425	A	7111	2	173	RPPRSEVPGPLSPGRPPAAGLRG R*PAGVRGLREPRAFSGVRVER RSLFIGKDMFDS
7058	37426	A	7112	888	1016	VPGEIHALHSADRQHENA*NAR TRWQHAQSGRSPLFLALSRE
7059	37427	A	7113	573	872	SPSLLPDPDAHVGC*SRSRKRPD RIRRFDSR*NGLFYCRKTS*PFH *G*MCQ*YQTDPRSNAQCHPVL LRLWWPGDEYDFLCRSGSVGS VRQSGRASGL
7060	37428	A	7114	1	654	
7061	37429	A	7115	71	2776	
7062	37430	A	7116	31	1016	TVLPERPYNRKSSRRNRGNGP PARSFCPSSGRSRRSSSPATGP/ HTAIASALPRIAFGKISDSSTQH TGPQDMAKAAT*NSLRGSMRY SFKPMVGRWIKSCLRVPWC
7063	37431	A	7117	279	1243	SVLLMCAADYLPRPPDVQTCN AVRVWLRVHRSNHGTTPDFSP GPVSAWYYAH/QPKIPIWSQ/QR GFTD/R*TRHKCQRFAVPDK*I SSPD*AMNYRKHRRPAPRHTA PTQKARLMADKSSLRHRHNSA NKRRSASPLSSAGYP/GKRIRAQ NLIPASTTNGQLRIRQRISQAR **TKRMARKGSISPISAVSNSLN SS*ASIIVSSCIRCALSPLSNIHK S*TAGPWGASSRKTNIGLSRQRI FPAWQSPCSRRTVKSSRQCAVT AAISSVAFRNAAFNPEGISVAS SNSLRGSMRYSFKPMVGRWIKS CLRVPWCIRPK
7064	37432	B	7118	1	726	
7065	37433	A	7119	1	138	
7066	37434	A	7120	56	133	
7067	37435	B	7121	1	1524	
7068	37436	B	7122	1	1521	
7069	37437	A	7123	1	1494	
7070	37438	B	7124	4	1698	

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7071	37439	A	7125	1	1725	MELKTKARELREECRSLRSRCD QLEERPNI RLIGVPESDGENGT KLENTLQDIIQENFPNLAKQVN VQIQEIQRTPQRYSLRRATPRHII VRFTKVEMKEKMLRAAREKGR VTLKGKPIRLTADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEGEIKSFTDKQMLRDFV TTRPALQELLKEALNMERNNRS WFFEKINKIDRPLARVIKKKRE KNQIDAIKNDKEDITNPTIEIQT IREYYKHLYPNKENLEEMDTF LDTYTFPRLNQEEVESLNTSITG SEIVAIISIA YQPKKVQDQMDPQ PNSTRVLEVLARAIRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLISNFSKVSGYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKCLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMFTFFTDLEKTTL NFIWNQKRARITKSILSQKNKA GGITLPDFKLYYTATVTKTAW YWYQNRWY WYQNRDIDQWN RTEPSEITPHVYNYLIF
7072	37440	A	7126	1	2478	

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7073	37441	A	7127	1	1746	METQKTLQKINESRSWFFKIN KIDRPLARLIKKKREKNQIDTIK NDKGDITTDPTIEIQTIREYYKH LYANKLENLEEMDKFLDITYTL PRLNQEEAESLNKPITGPEIEAII NSLPTKKIPGPDGFTAIFYQRY KEELQHIKKLIHHDQVGFIPGM QGWFIHKLINVIQYINRTKDK NHMISIDAEKASDKIQPFMLK TLNKLIGDGYLKIIRAIYDKPT ANIILNGQKLEAFPLKTGTRQG CLLSPLLFNIVLEV LARAI RQEK EKKCIRLGKEEVKLSLFADDMI VYLENPVSAQNLLKLISNFSKV SGYKINVQKSQAFLYTNNRQIE SQIMSELPFTIASKRIQYLGQLT RDVKDLFKENYKPLLNEIKEDT NKWKNIPCSWIGRINIMKMAM LPKVIYRFDAIPIKLPMTFFTELE KTTLKFIWNQKRARIAKSILSQ KNKAGGITLPDFKLYYKAIVTK TAWYWYQKRDVDQWNRIEPS ETIPHICNHLIFDKPDKNKQWG KDSLFNKCWEIWLAIGRKRK LDPFLTPYTKINSRWIKDFNIRP KTIKTLEESLGIQDISMGKKFTS
7074	37442	A	7128	1	1908	
7075	37443	A	7129	1	1494	
7076	37444	A	7130	2	1562	
7077	37445	B	7131	1	1569	
7078	37446	A	7132	1	1593	
7079	37447	A	7133	1	1520	
7080	37448	B	7134	1	2796	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7081	37449	A	7135	101	1686	SIAYQPKRVQDQMQDSQPNSTR ANIILNGQKLEAFPLKVTGTRQF SKENFE\PLSPLLFNIVLEVLARA IRQEKEIKGIQLGKEEIKLSLFA DDMIVYLENPIVSAQNLLKLISN FSKVSGYKINVQKSQAFLYTNN RQTESQIMSELPFTIASKRIKYL GIQLTRDVKDLFKQNYKPRLKE IKEDTNKWKNIPCSWVERIYIV KMAILPKVIYRFSAIPIKLPMTFF TELEKTTLKFIWNQKRARIAKSI LSQKNKAGGITLPDFKLYYKDT VTKTAWYWYQNRDIDQWNRT EPSEIMPHIYNLIFDKPEKNKQ WGKDSL FNKWCWENWLALCR KLKLNPF LTPYTKINSRWIKDL NVRPQTIKTLEENLGITIQDIGM GKDFRSKTPKAMATKAKSDK WDLIKLSFCTAKETTIRMNRQ PTKWEKIFATYSSDKGLISRIYN ELKQIYKKKTNNPIKKWAKDIN RHFSKEDIYAAKRIHMKKCSSSL AIRQM QIKTTMRYHLTPVRMAI IKKSGNNRDMDEIGNHPSQ
7082	37450	A	7136	1364	3024	TEPKTKTT*LSQ*MQKRPLTKF NNASC*KLSIN/IVLEVLARAIQ EKEIKGVQLGKEEVKLSLFADD MIVYLENPIVSAQNLLNLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNER KEDTNKWKNIPCSWVERINIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLKFIWNQKRARIAKSI LSQKNKAGGITLPDFKLYYKAT VTKTAWYSYQNRDIDQWN RTE PSEILPRIYNLIFDKPEKNKQW GKDSL FNKWCWENWLAICRKL KLDPFLKPYTKIKSGWIKDLNV RPKTIKTLEENLGITIQDIGMGK DFMSKTPKAMATKAKIDKWDL IKLSFCTAKETTIRVNRQPTER EKIFATYSSDKGLISRIYKELKQI YKKRTNNLIKKWVKDMNRHFS KEDVYAAKKHMKKCSSSLAIR EMQIKTTMRYHLTPVRMAIHKK SGNNRITIVLLPGSLIVRSFHVTL NAILLHPGLTLFSPSAGRDI PR VAFSYLAFSAQPSHNTPVN
7083	37451	A	7137	1	2274	
7084	37452	A	7138	2	2348	

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7085	37453	A	7139	1	2202	
7086	37454	A	7140	1	2823	
7087	37455	A	7141	1052	3831	RHKKPFKKSMPGAGFFERINK IDRPLARLTKRKREKNQIHAIK NDKGDITTDPTIEIQTIREYYKH LYANKLENLEEMDKFLDTYTL PRLNQEEIESLNRPITGAEIVAI NSLPTKKSPGPDGFTAIFYQRY KEELVPFLLKLFQSIEKEGILPNS FYEASINLIPKGRDTTKKENFR PISLMNIDAKILSKILANRIQQHI KKLIHHDQVGFIPGMQGWFNIC KSINVIQHINRTKDKNHMIISID
7088	37456	A	7142	1	327	
7089	37457	A	7143	1	446	
7090	37458	A	7144	382	1485	
7091	37459	A	7145	1	378	
7092	37460	A	7146	2	217	
7093	37461	A	7147	1	483	
7094	37462	A	7148	1	1260	
7095	37463	A	7149	1	891	
7096	37464	A	7150	5	182	RQGLLVSPRLVQKGEIRTPGLK RSSRLDLQKC*DYRHEPSSLAS EAPSVWVLLPPWRQS
7097	37465	A	7151	1	1914	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7098	37466	A	7152	1	2200	MKLTTHRENMA LTNGFCHHIA AQQNLYTNTLLAARIKQRLTEQ FELMLRQAQIDFAGKAHSLTEA QANTTQVSAERDRLFKNYQRY LKGSQAAVNPFSERDIDDARQN FLAQDALAQIQSQLDSLNGEQ SQIVSLKAQLAEAKYNLEQTIV RAPSNQYVTQVLIRPGTYAASL PLRPVMVFIPDQKRQIVAQFRQ NSLLRLAPGDDAEVVFNALPG KVFSGLAAISPAVPGGAYQST GTLQTLNTPAGSDGVATIELDE HTDLSALPDGIYAQNPNLKV ELKAPQLPRSLDDAQIALAVIN TTYASQIGLTPAKDGIFVEDKES PYVNLIVTREDNKDAENVKKF VQAYQSDEIPCRTRSKHCTPAE SGACKTESAARHAGPNLYQCR RIRSANRSAISVKGWRTPCIPDS LPAVEWLTGSGYLAGMKLGD TPLVEYTRDRLHRETLRSFGRY ELTTAYTPAGQLQSQHLNSLLS DRDYTWNDNGELIRISSPRQTR SYSYSTTGRLTGVTAAANLDI RIPYATDPAGNRLPDELHPDST LSMWPDNRIARDNNLYRYDR HGRLTEKTDLIPEGVIRTDERT HRYHYDSQHRLVHYTRTQYEE PLVESRYLYDPLGRRVAKRVW RRERDLTGWMSLSRKPQVTWY GWDGDRLLTIQNDRTRIQTIYQ PGSFTPLIRVETATGELAKTQRR
7099	37467	A	7153	719	1575	
7100	37468	A	7154	1	239	
7101	37469	A	7155	1	735	FNDDSPARKITRRWRIGEAAD LVGVSSQAIRDAEKAGRLP HPDMEIRGRVEQRVGYTIEQIN MRDVFGTRLRRAEDVFPPVIGV AAHKELNNDYTSKKVMKPLIT SNTVTDEIERANVLKMNGK WYLF TDSRGSKMTIDGINSNDIYM LGYVSNSLTGPKPLNKTGLVL QMALDPNDVTFTYSHFAVPQT KGNVNVITSYMTNRGFFEDKK ATFAPSFLMNIKGKNTSVVKNS ILEQGQLT
7102	37470	A	7156	1	4368	
7103	37471	A	7157	1	1452	
7104	37472	A	7158	1	516	
7105	37473	A	7159	1	743	

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7106	37474	A	7160	3	1743	DSPE\ARKITRRWRIGEAADLV GVSSQAIRDAEKAGRLPHPDME IRGRVEQRVGYTIEQINHMRDV FGTRLRRAEDVFPPVIGVAAHK GNDPQGTASMYHGWVPDLHIH AEDTLLPFYLGEKDDVTYAIKP TCWPGLDIIPSC LALHRIETELM GKFDEAQPNLGIGTINVVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFE PDVRILLT KYSNSNGSQSPWMEEQIRDAW GSMVLKNVVRETDEVGKGQIR MRTVFEQAIDQRSSTDTSLSTP AAPMVDSL IARVGV MARGNAI TLPVCGRDVKFTLEVLRGDSVE KTSRVWSGNERDQELLTEDAL DDLIPSFLTGGQTPAFGRRVSG VIEIADGSRRRKAALTESDYR VLVGELDDEQMAALSRLGNDY RPTSAYERGQRYASRLQNEFAG KYFLRWLMRKIFHIITRCINTAK LPKSVVALFSPHGELSARSGDA LQKAFTDKEELLKQQASNLHE QKKAGVIFEAEVITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMVLNLD RSRVPTECIEKI EAILKELEKPAP
7107	37475	A	7161	1	438	
7108	37476	A	7162	1	3216	MKLMETLNQCINAGHEMTKAI AIAQFNDDSP EARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPG FGDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMLARQVSRL/VKRAPTC WPGLDIIPSC\ LALPRIETELMGK FDEGKLPTDPHMLRLAIETVA HDYDVIVIDSAPNLG
7109	37477	A	7163	1	513	

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7110	37478	A	7164	1	2027	MRGHREKAAACKPRTRASEGT TPASTFILD FQPPNCNYTSGDNH TLRDPHYVEDKGHKYLVFEAN TGTENGYQGEESLFNKAYYGG GTNFFRKESQKLQQSACKRDA ELANGALGIIELNNDYTLKKVM KPLITSNTVTDEIERANVFKMN GKWYLFTDSRGSMTIDGINSN DIYMLGYVSNLTGPYKPLNKT GLVLQMGLDPNDVTFTYSHFA VPQAKGILCEEDNYTAGDNHM MRAPHCEEDRAHKFVVFDA GTESGHQGEESLFNRACGGGGT FFSKESQKLQQSACKRDCINA GHEMTKAIAIAQFNDDSPARK ITRRWRIGEAADLVGVSSQAIR DAEKAGRLPHPDMEIRGRVEQ RVGYTIEQINHMRDVFGRTRKR AEDVFPPVIGVAAHKGGVYKT SVSVHLAQDLALKGSLLLPKND FLFKLGLEGLPLGKIHSPTGA DVARGSSGLPKSELFPERNTQ ELQQDSEEGPLALQVLQSNLM DFADFGTTIKQDFRLLGQTSVD RLLQLSQGQAVKGNQLLPVSL VKRKTTLAPNTQTASPRALADS LMQLARQVSRLESGQNNDGIC EIHVAKYVEIFGLTSAEASKDIR QALKSFAGKLVVFYRPE/VGCR R*KRL*IFSLVYQTCAQSIQRAL QCTYQPISHSLLYRVTEPVYAV
7111	37479	A	7165	1	750	
7112	37480	A	7166	1	723	
7113	37481	B	7167	1	1156	
7114	37482	A	7168	1	999	
7115	37483	A	7169	1	529	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQ RVGYTIEQI NHMRDVFVAGDEKGYESFPWF IKTCA\HPSRGLYSVHINPYLIPS LSGYRTGLRSFGLVKQKKSPIR MPCVYTNP CVSIVSRMAQASSL
7116	37484	A	7170	1	1038	
7117	37485	A	7171	1	1098	

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7118	37486	A	7172	1	838	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGT TMYHGWVPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPLDI IPSCALHRIETELMGKFDEGSL PTDPLMYYYQAPCMKSNAL IVILGTVTLDAVGIGLVMPV\CR ASCGISSIPTASPTMACC
7119	37487	B	7173	1	1212	
7120	37488	A	7174	1	738	
7121	37489	A	7175	1	654	
7122	37490	A	7176	1	448	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHK\AGNLSQQLH**IGQR AGRGGRLRIGRQGGFSFHQ
7123	37491	B	7177	1	753	
7124	37492	A	7178	1	345	
7125	37493	A	7179	1	516	
7126	37494	A	7180	1	1989	
7127	37495	B	7181	1	1191	
7128	37496	A	7182	1	669	
7129	37497	A	7183	1	574	
7130	37498	A	7184	1	934	
7131	37499	A	7185	1	1281	
7132	37500	A	7186	1	324	
7133	37501	A	7187	3	817	
7134	37502	A	7188	1	587	
7135	37503	B	7189	1	610	
7136	37504	A	7190	1	882	
7137	37505	A	7191	1	1077	
7138	37506	A	7192	1	418	
7139	37507	A	7193	1	840	
7140	37508	A	7194	1	337	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRN\VFGSGLRRPTAELKCA SQT
7141	37509	A	7195	1	1142	
7142	37510	A	7196	1	1080	
7143	37511	A	7197	1	1170	
7144	37512	B	7198	1	1296	
7145	37513	A	7199	1	1179	

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7146	37514	A	7200	1	507	
7147	37515	A	7201	1	411	
7148	37516	A	7202	1	793	
7149	37517	B	7203	366	1502	
7150	37518	A	7204	1	1107	
7151	37519	A	7205	1	2388	
7152	37520	B	7206	1	2260	
7153	37521	A	7207	1	1067	
7154	37522	B	7208	563	1467	
7155	37523	B	7209	1	1272	
7156	37524	A	7210	1	1722	
7157	37525	B	7211	1	1917	
7158	37526	A	7212	1	2679	
7159	37527	A	7213	1	1207	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPG FGDFA\HFGNHHQNRIFALLGQ TSVDRLQLSQGQAVKGNQLL PVSLVKRKTTLAPNTQTASPR LADSLMQLARQVSRLESGQAIR DAEKAGRLPHPDMEIRGRVEQ RVGYTIEQINHMRDVFGTRLRR AEDVFPPVIGVAAHKGGVYKT SVSVHLAQDLALKGLRVLLVE AARGLKKRGLAGTAQGPGE EAPKGKKGKTEPGHERKGNWT GKGPQIREGTSPNPPREHGEC APPPSAKRKQPKAQKRKANSN AHPRQPKPKKKRPKRQTNSTN TRSGKRQNKQPEEPK
7160	37528	A	7214	1	2757	
7161	37529	A	7215	1	2984	

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7162	37530	A	7216	1	2387	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPI GVAAHKAKGLTALSPQTDWNR KRNSSKPLAQVQEEDSAWHPE CLQKTRQAWCDNLKTCHTSHG SVMAETA VINHKKRKNSPRIVQ SNDLTEAAAYSLSRDQKRMLYL FVDQIRKSDGTLQEHDGICEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPEEDAGDEK GYESFPWFIKRAHSPSRGLYSV HINPYLIPFFIGLQNPLTQFRLSE TKEITNPYAMRLYESLCQYRKP DGSGIVSLKIDWIIERYQLPQSY QRMPDFRRRFLQCINAGHEMT KAIAIAQFNDDSPARKITRRW RIGEAADLVGVSSQAIRDAEKA GRLPHPDMEIRGRVEQRVGYTI EQINHMRDVFGTRLRRAEDVFP PVIGVAAHKGGVYK\TLISVHL AQDLALKGLPGLLR\EGNDPQG \TTSMYHGWVPDLHIHAEDTLL PFYLGKDDVP\YAIKPTCWAG AWHFFLPCRALHRIETELMGKF DEGKLPTDPHMLRLAIETVAH DYDVIVIDSAPNLGIGTINVVCA ADVLIVPTPAELFDYTSALQFFD MLRDLLKNVDLKGFE PDVFIRD KLMERRNRRTGRTEKARIWEV
7163	37531	A	7217	1	917	

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7164	37532	A	7218	1	1862	MKLMETLNHCINAGHEMTKAV AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHKGGVYKTSVSVHLAY DLALKGLRVLLVEGNDPQGTA SMYHGWVPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPLDI IPSCALHRIETELWGK/FDEGR SFMPGPP/HHHPLGRSSQ*QVSN SLDRAAKGN*KPLCHCPCSGTT HATRLRIKEQRPYPYAHLLQQA VVDPRRGGHMVL/NVVRVTG DVGKGQIRMRTVVEQAIDQRSS TGAWRNALSIWEPVCNEIFYRL IKPRWEIRWGKRAPVIPKHTLN TQPVEDTSLSTPAAPMVDSLIA RVGVMARGNAITLPVCGRDVK FTLEVLRGDSVEKTSRVWSGNE RDQELLTEDALDDLIPSFLTGTQ QTPAFGRRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSAYERGQ RYASRLQNEFAGNISALADAEN ISRKIITRCINTAKLPKSVVALFS HPGEAICPVRMFRMKLMETLN QCINAGHEMTKAIAIAQFNDDSP GSEENNPALENR
7165	37533	A	7219	1	2724	
7166	37534	A	7220	1	3252	FNDDSPARKITRRWRIGEAAD LVGVSSQAIRDAEKAGRLPHPD MEIRGRVEQRVGYTIEQINHMR DVFGTRLRRAEDVFPPFNDDSP EARKITRRWRIGEAADLVGVSS QAIRDAEKAGRSTATRILEIRGR VEQRVGYTIEQINHMRDVFGTR LRAEDVFPPVIGVAAHKGGV YKTSVSVHLAQDLALKGLRVL LVEGRSFPQTEACLLQYSSWDV SSEKPAALNKNKSEMRGDFAD FGTTIKQDFRLLGQT
7167	37535	A	7221	1	465	
7168	37536	A	7222	1	291	

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7169	37537	A	7223	1	1710	MLCTKWDLGLEKNAGKNKN AYKWYGW PANAPDEPHIEQLV GECRV MRQLKRLISRIAPSPSSV MVVGESGTAIPVVSHA EFKGGF ADIGVHYLDWTSRTTEKSSTKS HKDDFGYLEFEGGANFSWGEM YGFFDWENFYNGRHNKPGSEQ RYTFKNTNRIYLGDTGFNLYLH AYGTYGSANRVNFHDDMFLA GFGFQF*PAGGW/WGSNPFFAK RYTRSKPYTGDNGYV\AGWV AGYNFMLGSEKFTLTN WNEYE FDRDATYAADFLPLYDVDCQD NGNLEYDTYSQPEWKHNLFDH YLAVLYRFKDESGKEQFSGAV VKTREATPGKEIEAITRMLDFS PRLKKLADCPSPRPVFEALCICS MLDALLLLCPLDYHASC DNYS YALLDPQGFPLPHRRLWGPYID VDVPMHLIQHAWAQDALLSC LYSDLLYMSSFPYPAGTLTRLM GVTSYNHKNLTLYCITLMSTI RFAYDGDDEEIAMKYTDFLKGE LSMNIRPLHDRVIVKRKEVETK SAGGIVLTGSASAKSTRGEVLA VGNGRILENGEVKPLDVKIGDI VFFNDGYRGEI
7170	37538	A	7224	678	1588	RTQHKASLHGRASAFCPRLFA PQAPRLFDHRGFLTFASANFAA VAFCPRLFPPTGAAAVCPLPLF APRRFLPPPPRLFRCHGFFPPC LGFLTSAFFLPPRLFALRRRG FLPFAAAAAFFPTRLFAPPPTQL FAPSPWLFAAAAFCP PWLSAP TPPRLFPAAAAFCCRDFLPSP PLFRHRDFLPPPRIFVPAAAAL RAGAADSAAGSTGVLGQDLWS RCVVGTGMEAPGSRGGGGGLR EDIPLPPEFSPGPALSSCR*GNRR PEGEMTCQEPLLS/CSWIP*VKE FETNPDNIVRPH

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7171	37539	A	7225	1	1627	MTKQLELPQSPGEVPGSDYPLL IACAYIGFLTWGGGFGSGMPLL AATPGNPVEHIAGLIPVGDTLFS GFNIFITVALIVVMPFITRMMMP KPSDVVSIDPKLLMEEADFQKQ LPKDAPPSEERLEESRILTILGAL GIAYLAMYPFSEHGFNITINTVNL MFMIAGLLLHKTPMAYMRAIS AAARSTAGILVQFPFYAGIQLM MEHSVTGIEAAMLDDLGGHGLG VNVASLLGDGQQRSEVEMLG LFFVGNRKATPLPYQSQPDDSC DWYRLRHEEAMTPDAVVRLEAE AAEYKYGFNDFKLKGGVLAGE EEAESIVALAQRFPQARITLDPN GA\WSLNEAIKIGKYLKGSLEY AEDPCGAEQGFSGREVMAEFR RATGLPTATNMIATNWREMGH AVIAQ\SVDIPLADPHFTWMTQG SVRVAQMCHEFGTLWGSHSNN HFDISLAMFTHVGAAAPGNPTA IDTHWIWQEGDCRLTQNPLEIK KGKIAVPDAPGLGVELDWEQV QKAHEAYKRLPGGARNDAGP MQYLIPGWTDFDRKRPVFGRH
7172	37540	A	7226	3	655	
7173	37541	A	7227	1	633	
7174	37542	A	7228	1	630	
7175	37543	A	7229	362	1491	PTLSVIHESMRFFIRHQPENLTL VVLNRNLPQALPICVFVINCW KLAVSNWHLPISTGCAVTKDG RWSPEFTITGQA/WDLPVVGYR NGVAQPLRLWQATHAHPFDLT KFNDGDFLRAEQQGINAEKLT VLYPNDNHTAGKKLRLMQQYF QCACSVADILRRHHLAQRKLH ELADYEVIQLNDTHPTIAPELL RVLIDEHQMSWDDAWAITSKT FAYTNHTLMPEALERWDVKLV KGPLPRHMQIINEINTRFKTLDL QDAEHRPLKMRGCLLCQCHTL FQGKHRFFTGAGGNRQNNVIE HLVAASRYRFTTASRRPLFTAG FTLLTAFLFHSNFAEGVNLSLMF MKNLTISGGFLLLAITGPGAYSI DRLLNKKW
7176	37544	A	7230	1	660	

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7177	37545	A	7231	545	1322	KHAEHLGQATHAHPFILTKFNP GYFL\RRQTTRGINAEK\LAKIFF \PKANHFAGKKLRMLMQQYFQC ACSVADILR\RHHLAGRKLHEL ADYEVIQLND\THPTIAIPELLRV LIDEHQMSWDDAWAITSKTFA YTNHTLMPEALERWDVKLVKG LLPRHMQIINEINTRFKTLVEKT WPGDEKVWAKLAVVHDKQVH MANLCVVGGFAVNGVAALHS DLVVKDLFPEYHQLWPNKFHN VTNGITPRRW\IKQCNPALAALL
7178	37546	A	7232	641	874	KYPTPGRDLRMFITGLSERL*EI TSLKRSITGDKYSLRPLTANSV TSVTHFSFGRVALKSLSSVRAV SLDLNRCFK
7179	37547	A	7233	1	693	
7180	37548	A	7234	980	1305	TWLRICSIHRSKSLILTSI/HVLH SDQGWQYRMRRYQNILKEHGI KQSMSRKGNCLDNAVVECFFG TLKSECFYLDEFNSISELKDAVT EYIEYYNSRRISLKLKGSNS
7181	37549	A	7235	1	3219	
7182	37550	C	7236	1	7521	
7183	37551	A	7237	1351	2117	CDRILCSACCAEPQPVSHLHRL RRSFERQPDGNGSQNPASRDR/ DVVDVTVIAWIEHRGGHEAPS GPGEDGMDAPAIAAGTFSPREA STLPVQVS*VCRLNCCSRDVPK ATRVPL/EKLAGPLRHPLFMLF QTCLHLSLFTHHFADDSRRLQIF SVGFVAGLKQQYRRDLLQGDV NPRMATAVGNDQVWFQSGNG FQARLRARSDGLPRFQVRTHFG QDAFCIVIVGNTDRDDVHGGQ RIGEREFQHHNPLWRFEC
7184	37552	A	7238	690	868	

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7185	37553	A	7239	2607	3692	TWLRICSIRHKSILTSI/HVLH SDQGWQYRMRRYQNILKEHGI KQSMSRKGNCLDNAVVECFFG TLKSECFYLDEFSNISELKDAVT EYIEYYNSRRISLKLKGLTPIEY RNQTYMPRVNCPFLDTRLIPDI GGVVRARAIAKLLNDTDMAIID KRRPRANVSQVMHIIGDVAGR DCVLVDDMIDTGGTLCKAAEA LKERGAKRVFAYATHPIFSGNA ANNLRNSVIDEVVVCDTIPLSD EIKSLPNVRTLTSEKYTAARFT RDLIAGITVGHAIPLAMALAIGS GVAPQYGLYTAAGIVIALTG GSRFSVSGPTAAAFVILYPVSQ QFGLAGLLVATLLGDLFDSDG
7186	37554	A	7240	1326	3930	NVLRGISAAFFVG*AKAPRNGT Q
7187	37555	A	7241	3	195	RVDDFVGGAGAPASPGL*QCG QLQKLIGISIGSLRGLGKCAVS NDLTEQEIRTLEHCPNSFF
7188	37556	B	7242	75	402	
7189	37557	A	7243	1	309	
7190	37558	A	7244	3	187	
7191	37559	A	7245	383	1778	
7192	37560	A	7246	2	447	IREKLIRLQHENKMLKLNQEGS DNEKIALQLSLDDANLRKNEL ETE/Q*VLVPINFPLTTAFVSH RFRLVNQRLLEVQSQVEELQKS LQDQGSKAEDSVLLKKKLEEH LEKLHEANNELQKKRAHEDLE PRFNSSSLKIEELQEALR
7193	37561	B	7247	80	1042	
7194	37562	A	7248	1	192	
7195	37563	A	7249	3	62	
7196	37564	B	7250	219	230	
7197	37565	A	7251	246	594	
7198	37566	A	7252	1	316	
7199	37567	A	7253	1	1059	
7200	37568	A	7254	1	516	EDALEQEKELQIQVEHYEFQT RQLELKAKNYADQISRLEERES EMKKEYNALHQRHTEMIQTYV EHIERSKMQQVGGNSQTESSLP GRSRKERPTSLNVFPLADGT/CT CTDRGQARACGGPLAPE*PRPA AVQLQLPGFVAVPWSERLLPV AGVPRSLGREPRLQAALHGS
7201	37569	A	7255	1	1176	
7202	37570	A	7256	1	749	
7203	37571	A	7257	1	691	

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7204	37572	A	7258	2	810	VMMTGYNNGRCPRNSLYSDCII EEKTVVLQKKDNEGFVLRG AKADTPIEEFTPTPAFPALQYLA ESVDEGGVAWQAGLRTGDFLI EVNNENVVKVGHRQVVNMIR QGGNH\FLKVVTVTRNLDPDD TARKKAPPPPKRAPTTALTLS KSMTSELEELVDKASVRKKKD KPPEIVPASKPSRAAENMAVEP RVATIKQRPSSRCFPAGSDMNS VYERQGIAVMTPTVPGSPKAPF LGIPRGTMRRQKSIGKKCGTTP QKLPLGFQTQP
7205	37573	A	7259	1	1416	
7206	37574	A	7260	2	1142	
7207	37575	A	7261	1	576	
7208	37576	A	7262	21	289	
7209	37577	A	7263	2	372	
7210	37578	A	7264	170	655	VRRRILGALFTWICSVTRESTSK PLSSALLSAKLLHRARSRTGLS GRNPKTISQDLQFAAIGSPLTES LNLHSRQALRDCCWHTTIPPNP *ICTHARR/WRDCCWHTTIPPNP DTVWRFPLSSPVSAAPKQERAS SEPSCSWSHWCRCSLSWLSSIPT GCTPVCSSICLLMATFPMFSLIK IVR
7211	37579	A	7265	1	1725	
7212	37580	A	7266	307	686	PRRTPMKSCIKIEVPIFVPLRT TRENCLRPIKGYAIYEKAPRSIL KDVHLTRNQCVPIPDYK WWS WQVCRRPKQWGWTQGPVAPK RSAEFFAAHA*KRRRVMLNLR GLDVDSLVIHQVNKAP
7213	37581	A	7267	1	276	
7214	37582	A	7268	1	726	
7215	37583	A	7269	3	231	
7216	37584	A	7270	1	217	
7217	37585	A	7271	3	283	KRKTEGDAKGDKAKVKDESQR RSARLSAKPAPPKPEPKPKKAP AKKGEKVPKGGKRKADAGKE REGYWRSQVKCIHFL*LYFW*L YSLKYYFI
7218	37586	A	7272	1	1188	
7219	37587	A	7273	5	365	
7220	37588	A	7274	1	453	

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7221	37589	A	7275	1	441	RQPAHPGTSSAAAAPRKRSAAA HAGVAVAASARLPPCAGCGLR AAPLLASSARLRALRRP\GGL WAAGCAPAAGQLCTAAGSAAP GALQRCGGRHGITRPWCAEIAS AG*GSGGSRWGCWPCCLLRT CTSHPLSSPLPFTHGSLQASFSL TRDCVSSTKTLWVWLEVQR
7222	37590	A	7276	2	1957	
7223	37591	A	7277	1	678	
7224	37592	A	7278	1	720	
7225	37593	A	7279	190	2947	QALQRGLLSR/DRAPCSSKLSW RS/SPRRRAGTGPVQEEVALKP VLLRHPVQPVIRVKLPRICLLEE AGQLRGVHRLESVEEYYEADG AEWGPPDTAMLESLEPMAGKH SLPQLLDSSASQPGAIQIIYSIL YQIHLYLKHLLSSYWGASQWKH TRHTHYFESLW*EHLPS*KYQK REKWADLTRSLENP/GQQPRDS WEP SGFWALPQAGDSCQTSQSP RKPTGPPKPSPPPEEGRLLR/CPT MPVMRKSLE
7226	37594	A	7280	3	439	
7227	37595	A	7281	1	273	
7228	37596	A	7282	2	1664	
7229	37597	A	7283	1	7511	
7230	37598	A	7284	1	5046	
7231	37599	A	7285	42	8716	
7232	37600	A	7286	2	201	
7233	37601	A	7287	2	797	CS/GSPPTCRQAQTSLEVALYM FLQNPDEAVLVAMSCFCHLCE EADTQCGVDEVSVHNLLPNSN TFMEFACQCDVNSPPVGPVSE HKGSMISVMSSEGNADTPVSK YMDQLLSLMVCNLEKVGLQIP TNDKDLVLLTDTNTQFVEQTL DIMKNLLDNHTEGSPEHLEQAS IETMMLNLVRNKMVEYLTDW VMGTSNQAADDDVKCLTSRI/D HPGGTLL*GQPRPELPAGLPRQ PASPGPRHPGASCGWPRAPPDS APGGPGRER
7234	37602	A	7288	56	8669	
7235	37603	B	7289	278	2333	
7236	37604	A	7290	1	423	

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7237	37605	A	7291	2	1688	PLYFHSPPAWLCSPSPPSARLYL ELRKLPATLPWSSVTDGYSYA GRRERGGEGEGRRVRVADH RSALPRTGPQGSEELANMQGL VERLERAVSRLESLSAESHPP GNCGEVNGVIA\GVAPSRGKPL HKLMDSMVAEF\LKNSRILSGD VETLAEIVHSAFQAQRAFLMA SQYQQPHENDVAALLKPISEKI KEIQTFQRE/RTRGSNMFNHLA VSESIPALGWIAVSPKPGPYVK EMNDAATFYTNRVLKDYKHS LRHVDWVKSYLENIWSELQAYI KEHHTTGLTWSKTGPVASTVS AFSVLSSGPGPLPPPPPLPPGPP PLFENEGKKEESSPSRSALFAQL NQGEAITKGLRHVTDQKTYK NPSLRAQGGQTQSPTKSHTPSP TSPKSYPSQKHAPVLELEGKKW RVEYQEDRNDLVISETELKQVA YIFKCEKSTIQIKGKVNSIIDNC KKLGLVFDNVVGIVEVINSQDI QIQVMGRVPTISINKTEGCHIYL SEDALDCEIVSAKSSEMNILIPQ DGDYREFPIPEQFKTAWDGSKL
7238	37606	B	7292	44	355	
7239	37607	A	7293	1	3623	SEKEKEELERLQKEEEERKKRL QLYVFMRCIAYPFNAKQPTD MARRQQKISKQQLQTVKDRFQ AFLNGETQIMADEAFMNAVQS YYEVFLKSDRVARMVQSGGCS ANDSREVFKKHIEKRVRSLEID GLSKETVLSSWMAKFDIYRG EEDPRKQQARMTASAASELILS KEQLYEMFQNILGIKKFEHQLL YNACQLDNPDEQAAQIRRELD GRLQMADQIARERKFPKFVSKE MENMYIEELKSSVNLLMA
7240	37608	B	7294	1	1555	
7241	37609	A	7295	1	1056	
7242	37610	B	7296	54	2173	
7243	37611	A	7297	1	984	
7244	37612	B	7298	95	1350	

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7245	37613	A	7299	1	2569	MDGAKAFFSAVAAGFVIILTCQ LQWQWQHGGVHAHQLWQLA SGYRDACFCVSTYSSGPSEFPGP TLGTLNELAIDLEERKHRRKAK VWKGEGGGLRSPRQSLLAFRA VLASRGTRSCHVSPYLGVS GAL SSPNPHPSTTGAGPIPPVQRWGL PQINQKNREIAIPLTLGMSTHLR RGCKNMSRFSPSLHCCTTPISTN FTDPGSHCKGAHGDIQLIQL KGALPMSINRSYFNAHPLLQISE AVTFKDVAVVFTEELGLLDP QRKLYRDVMLENFRNLLSVGN QPFHQDTFHFLGKEKFWKMK TSQREGNSGGKIQIEMETVPEA GPHEEWSCQIQIWEQIASDLTRS QNSIRNSSQFFKEGDVPCQIEAR LSISHVQQKPYRCNECKQSFS VSVFDLHQSHSGEKSHTCGEC GKSFCYSPALHIHQRVHMGEK CYKCDVCGKEFNQSSHLQTHQ RVHTGEKPFKCGQCGKGFHSRS ALNVHCKLHTGEKPYNCEECG KAFIHDSQLQEHQRIHTGEKPF KCDICGKSFRVRSRLNRHSMVH TGEKAFRCDTGKGNFRQRSAL NSHSMVHIEKPYKCEQCCKGF ICRRDFCKHQMVTHTGEKPYNC KECGKTFRWSSCLLNHQVHS GQKSFKEECGKGFYTNSRRSS HQRSHNGEKPYNCEECGKDYK RRLDLEFHQRVHTGERPYNCK
7246	37614	A	7300	2	326	
7247	37615	A	7301	166	443	

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7248	37616	A	7302	1	2692	MDPGTLQSASQGPTAINPCDYV LKRRNIQTSWQRLTPIIKWHVYI LMIGPGEKEAGRNLGIFGKWTP FPKIPAKRLRESNCPVDAQEIW LPQAFREYLGRRGNFGPGRRTC EFWEVESICSVESWELWLRQA DSGDSGKCSPDACGIHDTSGLR AGHCYLTRLWHVSGRIPPSFKL HHPGVCKFPKVGGKMTTFKEA VTFKDVAVVFTTEELGLLDPAQ RKLYRDVMLENFRNLLSVGHQ PFHQDTCHFLRE\EKFWMMGT ATQREGNSGGKIQTOMETVPE AGTHEEFSCQIWEQIASDLTR SQDTTISNSQLFEQDDNPSQIKA RLSIHVKTETSEGRTCKKSFS VSVLDLHQQLQSREKSHTCDEC GKSFCYSSALRIHQRVHMGKEL YNCDVCGKEFNQSSHQIHQRI HTGEKPFKCEQCGKGFSRRSGL YVHRKLHTGVKPHICEKCGKA FIHDSQLQEHQRIHTGEKPFKC DICCKSFRSRANLNRHSMVHM REKPFRCDTGKSFGLKSALNS HRMVHTGEKRYKCEECGKRFI YRQDLYKHQIDHTGEKPYNCK ECGKSFRWASGLSRHVRVHSG ETTFKCEECGKGFYNSQRYSH QRAHSGEKPYRCEECGKGYKR RLDLDFHQRVHRGEKPYNCKE CGKSFGWASCLLNHQRIHSGEK PFKCEECGKRFTQNSQLYTHRR
7249	37617	A	7303	1	585	KRTAISPKDAFETRQDLNEEEA AQVHGVKDPAP/ASTQSVLADG TDSAGN*ARQEPHKAAL*PIQN YQANLVNTFPYSNNSGGRG/RL MKTV/TQGSQQPSLADPASHLP VGDHLTYSNETEPVRALLPDEK KEVKPPALSMSNLHEATMPVL LDHLRETRADKKRLRKALREFE EQFFKQTRSPQKEDRIPMADE YY
7250	37618	A	7304	1	366	

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7251	37619	A	7305	1	1265	RYPGIPGSTISSLVEEHAPPSW EPQHQNVEATVLDVSVLRPSM GNFKSRKPKSIFKAESGRSHGES QETEHVVSQSECQVRAGTPAH ESPQNNAFKCQETVRLQPRID QRTATSPKDAFETRQDLNEEE AAQVHGVKDPAPASTQSVLA/D GTDSADPSPVHKDQNEADSA PEDLHSVGTSLRL/YHITDGDN PLLSPRLFPLSGQSQRFNLDPE APSPSTQQFMMPRSSSRSCSG DGKEPQTITQLTKHIQSLKRKIR KFEEKFEQEKYRPSHGDKTSN PEVLKWMNDLAKGRKQLKEL KLKLSEEQGSAPKGPPRNLLCE QPTVPRENGKPEAAGPEPSSSG EETPDAALTCLKERREQLPPQE DSKVTKQDKNLIKPLYDRYRII KQILSTPSLIPTIVSQDTCMLLLC
7252	37620	A	7306	797	1390	PRMGARPRAPAAQPPAAAQR PPARPATPTACGSSAHRAPSPA RSRRSPCTPRAAAPGPKAAR QWAGTATRSSRPQRSARRSPRD SSRCWAISSRSKRAATACTPGA KRRVATKARGALWSKPKSKA MRLWPWCLSGRLGS*KAQEV QDPGSDEGRGRLVESGLQDEG WVPQGGEGGVAGQDASHRGSF RGALK
7253	37621	A	7307	605	697	
7254	37622	A	7308	1	1263	
7255	37623	A	7309	257	1190	
7256	37624	A	7310	394	485	
7257	37625	A	7311	21	674	
7258	37626	A	7312	277	396	GLLPGWKI*CSRVFVTSIHVE VAELEANLPCTCKVHFPDPNKL HCFQLTVTPDEGYQGGKFQF ETEVPDAYNMVPPKVKCLTKI WHPNITET
7259	37627	C	7313	74	316	
7260	37628	C	7314	211	390	
7261	37629	A	7315	1	2601	
7262	37630	A	7316	1	1365	
7263	37631	A	7317	358	760	SIPLLFRKSSLSRK*CSAASIFSG SSKFKRSVNKEFNPQTTSFNV VGAQPVPSIECSLNKLRLHISPV VIVGVPSDLVQAFHFRHHVV RIRELQFQTEIFHPGSNPHLGLL LAENNEACLDQENALYMYKV
7264	37632	A	7318	1	1728	
7265	37633	A	7319	1	558	

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7266	37634	A	7320	2	1884	PAGAGPGQEAGAGPGPGAVAY ATGAEEGEMKPVAAGAAVPPG EGISAAPTVEPSSGEAEGGEAN LVDVSGGLETESSNG\KDTLEG AGDTSEVMDTQAGSVDEENGR QLGEVELQCGICTKWFTADTFG IDTSSCLPFMTNYSFHCNVCHH SGNTYFLRKQANLKEMCLSAL ANLTWQFRTQEEHPKTMFSKD KDII PFIDKYWECMTTRHRPGK TTWPNNIVKTMSKERDVFLVK EHPDPGSKDPEEDYPKFGLLDQ DLSNIGPAYDNQKQSSAVSTSG NLNGGIAAGSSGKGRGAKRKQ QDGGTTGTTKKARSDPLFSAQR LPPHGYPLEHPFNKDGYYILA EPDPQAPDPEKLEIDCWAGKPIS GDLYRACLYERVLLALHDRAP QLKISDDRLLTVVGEKGYSMVR ASHGVRKGAWYFEITVDEMP DTAARLGWSQPLGNLQAPLGY DKFSYSWRSKKGTFKHQSIGKH YSSGYQGQDVLGFYINLPEDTE TAKSLPDTYKDKALIKFKSYLY FEEKDFVDKAEKSLKQTPHSEII FYKNGVNQGVAYKDIFEGVYF PAISLYKSCTVSINFGPCFKYPP KDLTYRPMSDMGWGAVVEHT LADVLYHVETEVDGRRSPWE
7267	37635	A	7321	1	267	
7268	37636	A	7322	60	888	RGAALARTLSVRPVGAGTRR SHALGPRPGARSSFRLRCELRR CMCGNNMSTPLPAIVPAARKA TAAVIFLHGLGDTGHGWAEAF AGIRSSHICYICPHAPVRPVTLN MNVAMPWF\DIIGLSPDSQED ESGIKQAAENIKALIDQEVKNGI PSNRILG\GFSQGGALS\YTALT TQQKLAGVTALSCWLPLRASFP QGPIGGANRDISILQCHGDCDPL VPLMFGSLTVEKLLTVNPNAN VTFKTYEGMMHSSCQQEMMD VKQFIDKLLPPID
7269	37637	A	7323	1	1182	

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7270	37638	A	7324	1	2469	MVDRARPTVLVTEVPLKSKHT AQMGLVLTANESQPLVHETAL KNKKPQSWFPNPCVSYNRKPG LQD*GRAERPELGEQATEAALL KAPAESVRQEHRSTNT/PQTRSC CPQYFPRAGCLPSRGHDVEPQH EAGDGPCRGIRNG*KLLSSFFG QQVRT**R/CSELTpkQEFFKGS ESSNRTSGGLFGVVPGAAETGD VCVYTFKELEGQTSDEEGSRLE NDFLEITDEDKKKSTKDRYDKY KEVGEHPPLSSSPVEHEGVKLG QKSYRCDECGKAFNRSSHLIGH QRIHTGEKPYECNECGKTFRQT SQLIVHLRTHTGEKPYECSECG KAYRHSSHLIQHQR LHNGEKPY KCNECAKAFtQSSRLTDHQRt HTGEKPYECNECGEAFIRSKSL ARHQVLHTGKKPYKCNECGRA FCSNRNLIDHQRIHTGEKPYECS ECGKAfSRSSGLISHHRVHTGE KPYSCIECGKAFNQNSQLIEHQ RMHRGKKVYKCCECGKAFGLS KCLIRHQR LHtGEKPYKCNECG KSFNQNSHLI HQRIHTGEKPYE CNECGKVFSSSLMVHQ RTH TGEKPYKCND CGKAFSDSSQLI VHQRVHTGEKPYECSECGKAF SQRSTFNHHQR THtGEKSSGLA CQEGNKEISKGPQKPPGYRLCP LQAVGGGEFGPTRVHISFSLSD LKQIKVFFPGGPLMLEKQKKKS
7271	37639	A	7325	1	1596	
7272	37640	A	7326	2	3394	MAHAGGGSGGSGAGGPAGRG LSGARWGRSGSAGHEKLPVHV EDALTYLDQVKIRFGSDPATYN GFLEIMKEFKSQSIDTPGVIRRV SQLFHEHPDLIVGFNAFLPLGY RIDIPKNGKLN IQSPLTSQENSH NHGDGAEDFKQ QVPYKEDKPQ VPLESDSVEFNNAISYVNKIKTR FLDHPEIYRSFLEILHTYQKEQL NTRGRPFGRGMSEEEVFTEVANL FRGQEDLLSEFGQFLPEAKRSLF TGNGPCEMHSVQ
7273	37641	A	7327	1	738	
7274	37642	A	7328	1	399	
7275	37643	A	7329	3	223	
7276	37644	A	7330	1	1040	
7277	37645	A	7331	1	465	
7278	37646	A	7332	1	288	

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7279	37647	A	7333	109	4770	
7280	37648	A	7334	109	4687	
7281	37649	A	7335	109	4860	
7282	37650	A	7336	1	336	
7283	37651	A	7337	1	441	
7284	37652	A	7338	305	446	
7285	37653	A	7339	2	461	
7286	37654	A	7340	59	620	FQKIGL**/FIDLKDGLFTIPLAE QDCEWFAFTIPVVNNLQPAKRF HCFTDGSNNGKASYSGSKNKV FQMSYTSQAELVAVIELIEN AQLRFHTDEQLMTLFTQLQTA VRSRMHPFYITHIRAHPLPGPL TEGNQMADRLVANAISARHF QQHLL/THSHPPGDRSRSCRW RKKLEESGTSSHE
7287	37655	A	7341	1	1410	
7288	37656	A	7342	1	1740	MGQVWALVHSTLETFTDEEE GEYNEVTEQVCLPAKAGSAAV DLCCTKAVSLLPGESPQKVPTG AGGPLPAGMTGLLLGRSSLNK AVQVQTGVTDSYNGEIQIVTS TSVPWKAKPGDHIAQLLIVPKK FÆGLKEPLQVERQSSCQGLGY/ PFLMAAIVKPPEPIPLKWLTDKP IWTEQWPLSKEKLEALEDLITQ QLKKGHIAPTFSPWNSPVFIKK KSAEQDCEWFVFTILAVNNLQL KPAKRFHWKVLPGQPNQQPIWI PSRYLKPYHKPDAKEEIPESQ GFPVAAMSRLTLRRTPTVTSNT HRTQPPTWGQIEKLPQMAEENL RKAGQPVTISNWILPRITKFKPI EGAENVFTDGSSNGKASYSGSK GPLTEGNQMADRLVAKVISNA RHFHNLTHVNASGLKRRYSIT WKEAKAIQRCPTCQVMLSAAE QHLQKSAKTEAEKLVWWRD PITKSREIGKIITWGRGYACVSP GPNQQPIWIPSKHLKPYHKPDA GEKIPGESRGPPVAAMSRLTLR RMPTVMSNTHRTQPPTWGQIK KLSQMAEENLRKAGQPVTMNN LMIAVITTA FNKG
7289	37657	A	7343	1	1239	

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7290	37658	A	7344	1	777	MPQNSLEECALGLGKSLQEN VNNFPKTKLFQFLKLTNWILPKI TKFKPIEGAENVFTDGSSNGKA SYFGLKGGKVFQTPYTAAQKVE LVAVIEVLTAFDMPVSMISDST YVVHSTQLTENAQLRLHTDEQ LMTLFSQLQTAVR\CFAVMGIP ASTTT/DNAPGYTSQALATFFS MWNKRITGIPYNSQGGQAI VER MNLKQQLKQTEGDREYGT PQMQLNLALLTLNFLSLPKGQ MLSAAEQHLQKPAVKTEAEQLI
7291	37659	A	7345	1	1307	
7292	37660	A	7346	1	2040	
7293	37661	A	7347	1	1898	MAGAPPPAWLPHCSSISDCCAR NERGSVGVAPSKPARSAVDL CCTKAVSLLPGEPPQKVPARVC GPLPAGTVGLLLGRSSLSLKEV QIHTGVISDYKVEIQIVVSTSV PWKAEPGERIAQLLVVPYVGT GKSEIKQTEFGSTNKQGKAAY WVNQITDKHLTCEITIQGKKFK GLVDTGADVSIISLQHWPSMW P IQSTQFNIVGVDGSSNGKASYF GSKCKVFQMPYTSQKVELVA IIEVLTTFDMPINVISDSSYV VHS TQLIENAQLQFHTDEQLMTLFT QLQTAVRSRMHPFYITHIRAR\H TPLPGPLTEGNQMADECLVATA VSNARHFHNLTHVNASGLKCR YSNTWKAAKAIQRRPTCQMV HSSSFTGGVNPQGLEPNSLWQ MDVTHVPSFGRLAYVHVCVDT FSHFVWATCQSGESSACVKHH LLQGFVVMGIPASIKTDNVP GY TSQALATFFSMLNKRITDIPYN SQDVEADANADVGVDVDADA DVDAEEEEVFTDADADA EVDVD EDADAERLRCNADESDLDLD VDAEMDADVDTNLDVDA AVD VDVDADADVDADTDVDVDTG LNLEADLDLDVDADVDTDADV DRDADVEVAVDADATVNADV DYVDVDTDS
7294	37662	A	7348	2	565	
7295	37663	A	7349	1	996	
7296	37664	A	7350	18	260	
7297	37665	A	7351	1	594	
7298	37666	C	7352	232	603	
7299	37667	A	7353	1	1236	
7300	37668	A	7354	568	1370	

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7301	37669	A	7355	1	1800	
7302	37670	A	7356	1	498	
7303	37671	A	7357	1	3400	MDCSEKWRDPLDAVCVLPATE EPVVQGSALYLVAHDDDYCV WYSLQRTSPEKNERVRQMRPV CDCQAHLWNRPRFGEINDQD RTDRYVQALRTEIPLTLKGAKL QREEKEGDMPCRANILVTELF TELIGEGALPSYEHHRHLVET SLGEQVIVPPVDVESC PGAPSV CDIQLNQVSPADFTVLS DVLPM FSIDFSKQVSSSAACHSRFEPL TSGRAQVVLWWDIEMDPEGK IKCTMAPFWAHS DPEEMQ
7304	37672	A	7358	1	687	
7305	37673	A	7359	1	660	
7306	37674	A	7360	112	474	
7307	37675	A	7361	352	441	
7308	37676	B	7362	1	831	
7309	37677	A	7363	460	612	
7310	37678	A	7364	251	496	LFVSI/WQVFH*GRRGFLLVRN DCVQIWCEMISHSGFDLHFS DG Q*/WMSISSC/DFLAA*MSSF EK CLFMSFAHFLMGLFVF FL
7311	37679	B	7365	1	729	
7312	37680	A	7366	1	774	
7313	37681	B	7367	1	516	
7314	37682	A	7368	10	504	
7315	37683	C	7369	520	1656	
7316	37684	B	7370	1	1206	
7317	37685	A	7371	677	1126	AVTLTTKVCSFTPEASETTNPPG GTNNSRR TALRAVALTAKVRS FTPRGSAASFLKSVRPRTHQFRT Q*HVHQIEFSPGGLWESCPRAS SSTGDPGRPPERRGAAARKTVG VQGVGYSLPRKLCPLFSRTTYP HTSLRKDCLES DTTAE
7318	37686	A	7372	2	394	HLFIYLLVLLWCPGWPQTAG LKGSSCLSLSNWNYRPP*AL LLGTQKLPRVWNFIMVRRIQDG VKPSVIAEREMKSRKSAASLL SQRDHEPTRRKKLRTHPNIRRN KLQTRHLKSCNTHCEGPWRHS
7319	37687	A	7373	1	204	
7320	37688	A	7374	1	879	
7321	37689	A	7375	139	4488	
7322	37690	A	7376	1	933	
7323	37691	A	7377	335	582	VLQLLRQHVWSCSFLLVGSWS HWLQERSCRSSQ*VLQLIKAV WTQRTQEPSWLHLVDPAPGLQ VELPASPTRYAHTPQPLGG

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7324	37692	B	7378	1	3101	
7325	37693	A	7379	365	625	VAKIFSHVVGCLFTLMVVSFAV QKLFSLIRSHLSILAFVAIAFGVL DMKSLPTPMS*MVMPRFSSRVF MVLGLKFKSLIHLELIFV
7326	37694	A	7380	994	1167	NKGGHKQMEEHSMMDRKNQ YRENGHTAQGNL*IQCHPHQAT NDFLHRIKGNKCLASNM
7327	37695	C	7381	143	3529	
7328	37696	B	7382	54	1158	
7329	37697	A	7383	1662	1919	LLNVFALAFVLVLLIEMLCQFW IFPAFSCRHLVL*ISLYTLL*MRP RDSGMWCLCSRWFQRTSLFLA SFRYPSSSHGAGCSVSM
7330	37698	A	7384	63	1650	SPGHI*SSV*REIYSTKCPQEKA GKI*NSHPNITIKRTGEARANTF KS*QKARNN*DQSRTEGDRDT KNPSKNQ/CNPGAGFLKRSTKLI DR*QD**RRK*RIK*T**KMIK GI/VTTDPTEIQTITREFYKHFYA NRLKNLEEMDEFLETYTLPRLN QEEVESLNRPTGSEIEAIINSLP TKKSPGPDGFTAIEIYQRTNDKN HMIISIDEEKAFDKIQPFMLEM LNKLGIYGYMYIKIIRTIYDKSTA NIILNVQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAIRQEKEI KGIRLRKEVFKMFLFADDMIVY LENPIISAPNLLKLISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIATKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTNK WKNIPCSWIGRINIVKMAILPKV IYRFNAIPIKLPMTFFTELEKTTL KFIWNQKRALNAKTILSQKNK AGGIMLPDFKLPYKATWYWNQ NTEIDQWNKTEASEITPHIYNHL VFDNPDKNKK
7331	37699	A	7385	392	493	
7332	37700	A	7386	1	1223	
7333	37701	A	7387	386	553	KMIKGISPLIPQRYKLPSSENTINT STQIN*KI*KKWIHSSHTPSQD* TRKKLNL
7334	37702	B	7388	285	1581	
7335	37703	A	7389	1	1473	
7336	37704	A	7390	755	1042	SSYATKKEPALPSQSEAKKTKL ETSCYLTSNYTTRLQ*PKQHGT GTKTEI*ANGTEQSPQK*YHTA TTIWSLTNLTKTRNGERIPYLIN GVGKTG
7337	37705	C	7391	1	2334	

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7338	37706	A	7392	1	1539	
7339	37707	B	7393	1	2361	
7340	37708	A	7394	5071	5535	GTAFLWRRRGALRFRVSSFSVL FFPHLCGFIYFWSLMMVMYRC VFGVDVLSVC*FSF*QTGPSAA GLLEYPAY*GVSVP LLGGASQL GCSGVRGQGPT*GGS LPVLRSP AACWENHCSLQSCQTGTFKSA EVTAVFLFVCALPPEVEPT EAG
7341	37709	A	7395	1	459	
7342	37710	A	7396	3	1063	
7343	37711	A	7397	39	895	
7344	37712	A	7398	2	277	
7345	37713	A	7399	34	845	
7346	37714	A	7400	1	3399	
7347	37715	A	7401	1	3126	
7348	37716	A	7402	1	387	
7349	37717	A	7403	1	3578	RDLVVGCGGFVKSDVEINYS LI EIKLYTKHGTLKYQTD CAPNN GYFMIPLYDKGDFILKIEPPLGW SFEPTTVELHVDGVSDICTKGG DINFVFTGFSVNGKVLSKGQPL GPAGVQVSLRNTGT EAKIQSTV TQPGGKFAFFKVLPGDY EILAT HPTWALKEASTTVSVTNSNAN AASPLIVAGYNVSGSVRS DGEP MKGVKFLLFSSLVT KEDVLGC NVSPVPGFQPQDESLVYLCYTV SREDGSFSFYSLPSG
7350	37718	A	7404	34	460	
7351	37719	A	7405	105	245	VSSEKVS LGVPCPAASAAASGD ASR*MATGRGGGGGGVAALPE SAP
7352	37720	A	7406	1	1289	
7353	37721	A	7407	462	5250	
7354	37722	A	7408	714	887	
7355	37723	A	7409	1	109	PLRQLLCVKRGFC*HH*HEGCQ SRLLLRCLLCSTAI
7356	37724	A	7410	1	1845	
7357	37725	A	7411	192	1507	
7358	37726	A	7412	2	688	
7359	37727	A	7413	1	518	
7360	37728	A	7414	1	276	

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7361	37729	A	7415	984	3112	MWQETFFRMENLQLIILILGSP SQLHFPVIRNNQGWTLYHQWP HFLNRFSSRLSNSSLLNQLKFTC ANCKKPLQKGQTAYQRKGSAAH LFCSTTCLSSFSHKPAPKKLCV MCKKDITTMKGTI/VLAQVDSS ESFQEFCS\TSCLISL/YEEQQNP TKG\ALNKSRTCICGKLTEIRHE VSFKNMTHKLCSDHCFNRYRM ANGLIMNCCEQCGEYLPKGA GNNVLVIDGQQKRFFCCQSCVSE YKQVGSHPSFLKEVRDHMQDS FLMQPEKYGKLTTCTGCRTQC RFFDMTQCIGPNGYMEPYCSTA CMNSHKTKYAKSQSLGIICHFC KRNSLPQYQATMPDGKLYNFC NSSCVAKFQALSMQSSPNGQFV APSDIQLKCNYCKNSFCSKPEIL EWENKVHQFCSKTCSDDYKKL HCIVTYCEYCQEEKTLHETVNF SGVKRPFCSGCKLLYKQDFAR RLGLRCVTCNYCSQLCKGGAT KELDGVVRDFCSEDCKKFQD WYYKAARCDCKSQGTLKERV QWRGEMKHFCQDQHCLLRFYCQ QNEPNMTTQKGPENLHYDQGC QTSRTKMTGSAPPPSPTPNKEM KNKAVLCKPLTMTKATYCKPH MQTKSCQTDDTWRTEYVPVPI VPVYIPVPMHMYSQNIPVPTTV PVPVPVPVFLPAPLDSSEKIPAAI EELKSKVSSDALDTELLTMTD
7362	37730	A	7416	1	1071	
7363	37731	A	7417	88	2118	
7364	37732	A	7418	2	2930	
7365	37733	A	7419	1	1677	
7366	37734	A	7420	172	13329	
7367	37735	A	7421	2	946	
7368	37736	A	7422	255	933	WIEAAPQAQEVQGDGLWLPCG AAGAGGLQSARSYGTVEASV AEHPW/CAPGGCMAGCGSLAA AASPGLVPGHLP/QPTAAPSHPH RASLRVALLSGQWGLTCGQLL ASAPLLQSWAWDTRLLMCRRRL SCSSEEGERIAQLLLPYLKLGS STVKRTGGFGNTNPAGKAVYW VNQVSDKRPICTVAIQGKDFEG LVDTEADVSIHAINQWPQHWP QKASIGIVGVGAA
7369	37737	A	7423	718	2385	
7370	37738	A	7424	1	180	

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7371	37739	A	7425	1	1713	
7372	37740	A	7426	1	774	
7373	37741	A	7427	2	158	
7374	37742	A	7428	1	174	
7375	37743	A	7429	252	1245	ELGECGCRQGSVSHCGRGRSRL LPRVRGKRHLPRARLARQCEAL SPWGFRCFRNHHQTGFSLAGA NQRGPLAATLSGPGGEGQSAV ARLMGEKKNHPGAQYATRLSP RVGRFINAAGTTGFPTGKRAPT CWPGADNIPSCALPRIETELM GKFDEGKLPTDPLMLGLAIET VAHDYDVVIDSAPNLGIGTINV VCAADVLIPTPAELFDYTSAL QFFDMLRDLKKNVDLKGFEPA VRILLTKYSNSNGSQSPWMEEQ IRDAWGSMLKKNVVRETDEVG KGQIRMRTVFEQAIDQRSSTGA WRNALSIWEPVCNEIFDRLIKPR
7376	37744	A	7430	1	1113	
7377	37745	B	7431	56	1234	
7378	37746	A	7432	667	1048	LLLFRDLGIGTINVVCAADVLI PTPAELFDYTSALQFFDMLRDL LKNVDLKGFEPAVRILLTKYSN SNGSQSPWMEEQIRDAARFPV GKPVVPAALMNRPTRRGEAVC VLGARVVFLFTSETGNS
7379	37747	A	7433	1	1428	
7380	37748	A	7434	1	1125	
7381	37749	A	7435	1	756	SDRRYEWDRGPSLIIRPTIRVGP WSQTNNQTDTS GTVV/RRFP PVIGVVFHKGGVYKTSVSVHL AQDLALKGLRVLLVEGNDPQG TASMYHGWWPDLHIHAEDTLL PFY\DPHMLRLAIETVAHDYD VVIDSAPNLGIGTINVVCAADV LIVPTPAELFDYTSALQFFDMLR DLLKNVDLKGFEPAVRILLTKY SNSNGSQSPWMEEQISDALRIS QRRNISSKFILQSACITLTTFIST CWAIIVTQSG
7382	37750	A	7436	1	1329	
7383	37751	A	7437	1	1185	
7384	37752	A	7438	1	1065	
7385	37753	B	7439	67	1033	
7386	37754	A	7440	1	1192	
7387	37755	A	7441	1	1413	
7388	37756	A	7442	1	1176	
7389	37757	A	7443	1	1302	
7390	37758	B	7444	1169	3356	
7391	37759	A	7445	14	3974	

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7392	37760	A	7446	677	1033	RATASSISTTRPCESTSNAPSCN SPIRSRSPLPIIRPRASITLILVSM MRMVRA TISCAILV SRCQPAISP PLCTAFFRPICAAGVPVFTLFTT TP*SLPLLLISAPSMPLKMELES T
7393	37761	A	7447	1558	1748	CSNASARFFAAVNP SGLGMILM *SRFIVFTKLSAIPLLSGLRTAVF FGSSPNIRANWRVSLAR
7394	37762	A	7448	1	595	LKNSKPQVVM AAGIFLIMCG VWLGFGGVLDPTKSSGYLIVDI YNEIICMLSNRIAGLGLSIMAVG GYARYMEGTPASRAMV SLLSR PLKLIRSPYIILSAT*VIGQIMPAQ FITSASGLGM LLMVPLFPTLVSL GVSRLSAVAVIATTMSIEWGIL ETNSIFAAQVAGMKIATFFCHA HNPVASR VILSVAISGTRAR
7395	37763	A	7449	1	978	
7396	37764	C	7450	32	316	
7397	37765	A	7451	1	2465	
7398	37766	A	7452	1	1416	MIILIDAEKAFDKIQQPFMLKTL SKLGT DGTYLKIIIRAIYDKPTAN IILNGQKLEAFPI.KTGTRQGCPL SPLLFNIGLEDLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVS GY KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILP\R DIDQW/NRTEPSEIMPHTYNYLI FDKPEKNKQWGKDSL FHKWC WENWLAVCRKLKLD PFLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGVGKDFMSKAPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTTWEEKIFATYSSD KGLISGIYNELKQIYKKKTNNPI KKWAKDMNRHFSKEDIHAAK KHMKKCSSSLAIREMDIKTTMR YHLPVRMAIHKSGNNRCWR GCGEIGTL

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7399	37767	A	7453	3	2272	RSTRQKVNKDTQELNSALHQA DLIDIYRTLHLKSTEYFFSAPH HTYSKIDHILGSKALLSKCKRTE IITNYLSDHSAIKLELRIKNLTQ NRSTTWKLNLLNDYWVHN KMKAEIKMFFETNENKDDTTYQ NLWDTFKA VCRGKFIALNAHK RKQERSKIDTLTSQLKELEKQE QTHSKASRRQEITKIRAELEIE TQKTLQKINESRSWFFERINKID RPLARLIKKKREKNLIDAIKND KGDITTDPTIEIQTIREYYKHL TNKLENLEEMDKFLDTYTLPLRL NEEEVESLNRPIGAEIVAIINSL PTKKSPGPDGFTAIFYQRYKEE LVPFLLKLFQSIEKEGILPNSCY EASIIIPKPRDRTTKKENFRPIS LMNIDAKILNKILAKRIQQHIKK LIHHDQVGFIPGMQGWFNIRKS INVIQHINRAKDKNHMHSIDAE KAFDKIQPFMLKTLNKL/DIGR NYCKVHMEPKKSPHRQVNPKE KEQSWRHHTT*LQTILQGYNSQ NSMVLVPKQRYRSMENRRLR NNAAYLQLSDL*QT*EKQAMG NGFPI**MVLGKLASHM*KAET GSLPYTLYKNQFKMD*RLKR*T *NHKNPRRKPRHYHSGHRHGQ GLHV*NTKSNGNKSQN*QMGS N*TKELLHSCRNYHQSEQATY KMGENFHNLLI*QRANIQNLQ* TQTNLQEKNKQPHQKVGKGHE
7400	37768	A	7454	1	3020	
7401	37769	A	7455	1	3046	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTTHSKASRRQEITKIR AELKEIETQ
7402	37770	B	7456	197	1917	
7403	37771	B	7457	1	1954	

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7404	37772	A	7458	1	1947	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGRQGWFNICKSIN VIQHINRAKDKNHMIISIDAEKA FDKIQQLFMLKTLNKLIDGTY FKIIRAIYDKPTANIILNGKKLEA FPLKTGTRQGCPLSPLLFNIVLE VLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVSQYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDANKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMFTFFTELEKTTLKFIWNQK RAHITKAILSQKNKARGITLPDF KLYYKATVTKTAWYWYQNRD IDQWNRTQPSEITPHIYNLIFD KPDKNKQWGKGSLEFNKWCWE NWLAIKRKLKLDPFLTPYTKIN SRWIKDLNVRPKTTKTLEENLG ITIQDIGMGDMFMSKTPKAMAT KDKIDKWDLIKLSFCTAKETT IRVNRQPTKWEKIFTTYSSDKG LISRIYNELKQIYKKKTNNPIKK WAKDMNRHFSKEDIYAAKKH MKKCSPLAIREMQIKTTMRYH LTPVRMAIKKSGNNRCWRGC GEIGTLLHCWWINWMKKTWH IYTMEEYASIKKNEFMSFAGA* MKLETII
7405	37773	A	7459	1	1713	

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7406	37774	A	7460	281	2882	KPRLNYMKNAEASRADAINW KKG Y/LVMEDKMNEMKREGKF REKRIKRNKQSLQEIW DYVKRP NLR LISVPESDRENGTKLENTL QDIIQENFPNLARQANIQIEIQ RTPQRYSSRRATPRHIVRFSKV EMKEKMLRAAREKEIQTNIREY YKHRYANKLENLEEMDKFLNI YTLRRLNQEEVESLNRPIRGSEI VAIINSLPTKKSPGPDGFTA EYY QRYKEELVPFLLKLFQSIEKEGI LPNSFYEASIIIPKPGRDTTKKE NFTISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFIPGMQG WFNIRKSINVIQHINRTKDKNH VIISIDA EKA FDKIQQLFLLKTL NKL GIDGTYLKIKRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEV LARAIRQEKEI KGIQLGKEEVKLSLFADDMIVY LENPIVSAQNLLKLISNFSKVSG YKINVQKSQAFLYTNNRQTETQ IMSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTKK WKNIPCSWVGRINIMKMAILHK VIYRFNAIPIKLPMTFFTELEKTT LKFTWNQKRARIAKSILSQKNK AGGIMLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIT PHIYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKCLKLD PFFTPYTKINSRWIKDLNVRPKT
7407	37775	B	7461	1	2633	
7408	37776	A	7462	3	1336	

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7409	37777	A	7463	2	2458	SWFFEKINKIDRPQARLIKRE KNQIDTIKNDKGDITDPTIEQIT IREYYKHL YANKLENLEEMDK FLDTYTLPRLNQEEVESVNRPI GSEIEAITNSLPTKKSPGPDGFT AEFYQRYKEELVPFLKLFQPIE KEGILPNSFYEASIIIPKPGRDT TKKGNFRPISLMNIDAKILNKIL ANQIQQHKKLIHHDQVGFIPG MQGWLEVLARA/IRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PTVSAQNLLKLISNFSKVSGYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLNEIKEDTNKW KNIPCSWIGRINIVKMAILPKVI YTFNAIPIKLPMFTFFTELEKTTL KFIWKQKRSHIAKSILSQKNKA GDITLPDFKLHYKATVTKTAW YWYQNRDIDQWNTTEPSEIML HIYNHLIFDKPDKNKQWGND LFNKWCWENWLAICRKLKLD FLTSYTKINSRWIKDLNVRPKTI KTLEENLGNTIQDIGMGKDFMS KTPKAVATKAKIDKWDVIKLL SFCTAKETTIRVNRQPTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWAKDMNRHFSKED IYAAKRHMKKCSSLAIREMQI KTTMRYHLTPIRMVIIKSGNN RAPGGRGGCGCSFGRLKRSCVP ALKRVADLPAQRSSSAKGETAS
7410	37778	A	7464	2	2101	
7411	37779	A	7465	196	792	GILSFAKDMNRHFSKEDIYAAK KHMKKCSSLAIREMQIKTTMR YHLTPVRMAIIKSGNNRCWR GCGEIGTLLHCWLDCKLVQPL WKS VWRFLRDLELEIPFDPAIPL LGIYPNEYKSCCYKDTCTRMFI AALFTIAKTWEPPKCSNMIDWI K/KMWH/IYTRDTMRPKNDEVQ SLVG/TWVNWETTFSVTIAVQK PTRLSH
7412	37780	A	7466	3	610	
7413	37781	A	7467	1	1986	

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7414	37782	A	7468	965	4421	TWKGTTTSTRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEYTFFSAPHHTYSKI DHILGSKALLSKCKRIEITNYLS DHSAIKLELRIKNLTQSRSTTW KLNNLLLNDYWVHNEMKTEIK MFFETNENKDTTYQNLWDAFK AVCRGKFIALNAYKRKEERSKI DTLTSQLEKEKQEQRHSPSR RQEITKMRAELKEIETQKTLQKI NESSWFFERINKIDRPLARLIK KKREKNQIDT
7415	37783	A	7469	1	1674	MGQLQRNARDLQESVMSIRM MPMEYVFSRYPRVLRLAGKL GKQVELTVGSSTELDKSLIERI IDPLTHLVRNSLDHGIPEKRL AAGKNSVGNLILSAEHQGGNIC IEVTDDGAGLNRERILAKAASQ GLTVSENMSDDEVAMLIFAPGF STAEQVTDVSGRGVGMDEVVCR NIQKMGGHVEIQSKQVTGTTIRI LLPLTLAILDGMSSLLTHGIGQF ADVACAGPLLAELDALGKAL KEPARPMVAIVGGSKVSTKLTV LDSLSKIADQLIVGGGIANFIA AQGHVGVKSLYEADLVDEAKR LLTTCNIPVPSDVRVATEFSETA PATLKSVDNVDKADEQILDIGDA SAQELAEILKNAKTILWNGPVG VFEFPNFRKGTEIVANAIADSEA FSIAGGGDTLAAIDLFRIADKNS YISTGGGAFLEFVERLTTLTQLL HDQGYVTQAIGKWHMRETTEP QPQNVGFDDFRGFNSVSDMYT AWRDVHVNPEVALSPDRPAYI NQSPLSKDDVHALRGGDQQAI ADNITPKYMADLDQRCTEYGAQ LLDKMAKSA
7416	37784	A	7470	1	3360	
7417	37785	A	7471	2	543	
7418	37786	A	7472	1387	1805	QAIAFDVQPRGQDYAGNQRHH NQYNQHQAHSWQRCGIGDGL ARFARHNATKPANKPGETGDR FNHQKNHGGQQDPVLHQLIEV MLVGRGGDQAVGQATLGIDTN VGLHAKV/LTDCLSWSDASPR VAALCSWSSWVPQ
7419	37787	A	7473	4088	4228	SPPSA*VKALPGPKHHGGLKPV HPIPGASLVLARRWSMFRRWG LIT
7420	37788	A	7474	332	538	

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7421	37789	A	7475	1	1983	
7422	37790	A	7476	856	964	
7423	37791	A	7477	1	1563	
7424	37792	B	7478	1	1086	
7425	37793	A	7479	372	886	
7426	37794	A	7480	2028	2368	RPPGNSLNVSRMGTRSSYSCRR HSPAFLSWGKGRCHLCNKAHL LAGA*HYSFLSGSAPY*N*VNG QI**R*TAHRSTPDAPTGH*NCC S*L*CHSY*QRA*PGYRHD*CR MCC
7427	37795	A	7481	146	402	LGFLRLSEMPRKQGDYRTRI/C EIRGRVEQRVGYTIEQINHMRD VFDRRYEWDHGPRLIIRPTIRVG PWSQSDYQTDDTSGTVVPD
7428	37796	A	7482	3	149	
7429	37797	A	7483	5	753	ARKVVAVAARHKCPA/CISFSA SHRLYRYWEEEMNPAPVEAMR TFQQFIDEGNYTSGDTHTLRDP HYVEDKAHKYLVFEANTGTEN GYQGEESLFNKAYYGGGTNFF RKESQKLQQSACKRDAELANG ALGIELNNDYTLKKVMKPLITS NTVTDEIERANVFKMNGKWYL FTDSRGSKMTIDGINSNDIYML GYVSNSLTGPYKPLNKTGLVLQ MGLDPNTNIQTDDTSGTVVQT NNQTADTSGTMVPD
7430	37798	C	7484	182	709	
7431	37799	B	7485	1	1488	
7432	37800	A	7486	2	1034	YLISQRGLIRRSKISLQTGSQIER AFLQAPVEER*SMACSK/YSSHP DLTFTNFIRFTYNIF*NHASPGIP NLLLHPRGLRAITIAVFGKQNT YIRLEPFKINVLEQITKHIEKLQC G/ECSQTTQQAWEQSAHQHIR H*SCRYPG*ARCQ*VHQARTL* DQRS*ADHEAYRKTAVRRCSQ TTQQAWEQSAHQHQHIR*SCR YPG*ARCQ*L*HHSHEQQFQWP VG/CIRCGSVGSLPSS\ICPLTQF QYGAEPDRKE*CQAPASKWAL LHK*HRPFPQDRKAGECLLHEY EDLVPIRDTLRLFPGGRYLPRA KHVAPSEPDPITIRVGPWSQSDY QTDDTSGTVVPD
7433	37801	A	7487	2	426	
7434	37802	A	7488	138	346	RWRLQNLSFCSSC/SRIWL*RGY VFCSWKPREQSSQSPLACSAAC LTLRTQSCLGTAGQTDDTSGT MVQY

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7435	37803	C	7489	1	1290	
7436	37804	A	7490	48	439	HHHSGGLDD/HRRKILNTAYRSR KLQASC*KSAERAWKTKASLT VNGWMKKIRCKTPMCRPTVR* SIRILIITTPRVPSPRS*LKPPTS CT*CIFTQPTRC*KMTTCWRCS TSRKSSGHVCVSPGSVAVTI
7437	37805	A	7491	1126	1340	KARWMLQTRKRAVRRSNWRK RNIWCAPAAICKRSTTLITSF*K PVKMACPFICAMLRRLARRC AGALPN
7438	37806	A	7492	12	960	
7439	37807	A	7493	1	1806	
7440	37808	B	7494	1	1318	
7441	37809	A	7495	1	1385	MLQIPKQQQNEKYQVPQFDQS TIKNIESAKGLDVWDSWPLQN ADGTVAEYNGYHVVFALAGSP KDADDTSIYMFYQKVGDNSIDS WKNAGR VF KDSDKFDANDPIL KDQTQEWSGSATFTSDGKIRLF YTDYSGKHYGKQSLTTAQVNV SKSDDTLKINGVEDHKTIFDGE RKTYQNVQQFIDEGNYTSGDN HTLRDPHYQNTYIRLEPFKINV EQITKHIEKLQCGGVVKQLSRR GNNQHISSTYDINRADTQVRR VNNYDIIVMSNSFNQSEHQV WIDRKAGECLLHEYEDLVPIRD TLRLFPGGRYLPRAKHVAPSEP DPEQDEQKLSCTYRKRYRVL VGELGDEQMAALSRLGNDYRP TSAYERGQRYASLLQNEFAGNI SALADAENISRKIITRCINTAKLP KSVVALFSPGELSARSGDALQ KAF*SASPD RADSSPG*EKRATT D/SRQFGGVDTAGNNLT*NIFRI SQRRNISSKFIQ*ACITLTTFIST CWAHVTQSG/LMQPSAHPAR QPEHDIAFGKCSSSVSVHLA/LG SGSEGATCFARGR*RPPGNSLN VSRMGTRSSYSCRRHSPAF\HRS TPDAPTGH*NCCS*L*CHSY*QR A*PGYRHD*CRMCC
7442	37810	B	7496	1	3597	
7443	37811	A	7497	1	666	
7444	37812	A	7498	1	738	

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7445	37813	A	7499	1	727	MKVLIVESEFLHQDTWVGNAV ERLADALSQQNVTVIKSTSFDD GFAILSSNEAIDCLMFSYQMEH PDEHQNVRLQIGKLHERQLNVP VLLGDREKALAAMDRDLLEL VDEFAWILEDTADFYRRRTAPVA RE*TRYPPGSCWPPLF/TAPLMK YS\DIHEY\SWAAPGHQGGVGF TKTPAGRFYHDYYGENLFRTD MGIERSTAVSLLDHSGAFGQS EKYAARVFGADRSWSVVVGTS GSNRTI
7446	37814	A	7500	1	744	
7447	37815	A	7501	1	250	
7448	37816	A	7502	1	850	
7449	37817	A	7503	1	1085	GNLAAGKTIQAQDRDAVGILSS RTGESMENLQKNLLPKQRRRT RETFTMSGALDVLQIKEEDVLK FLAAGTHLGGTNLDFQMEQYI YKRKSDGIYIINLKRTWEEL\LR QPRA\MVPIENPAD\VSIVSSR\N TGQVCGTVRAVLRLAATGAT PIGG\RFPTPGTF\TN\QIQASLPGS PRAFLWVT*PPGAEPALSRAS LC*PFLPLALVNP/SPLRRYV/I AIPCNNKGAH\SVGLMWW\ML AREV\LRMRGTISREHPW\EVM PDLYFYRDPEEIEKEEQAAAEK AVTKEEFQGEWTAPAPEF/TLA TQPEVADWSEGVQGAFLVP\IQ QFP\TEDWSAQPATE\DWS*A\P LAQATEWVGATTDWS
7450	37818	A	7504	1	1053	
7451	37819	A	7505	2	654	
7452	37820	A	7506	674	805	TLMQKSSIKYWQTESSSTSKSL STMIKWASSL*REIYSTKCPQEK AGKIQN*HPNITIKRTRKARANT FKS*QKARNN*NQSRTEGNRDT KNPSKN**/MPGAGFLKGSTKLI DR*QD**RKKERRIK*/IAIKNDK GDITNPTEIQTIREYYKHLYA NKLENLEEMHKFLDITYLRLN QEEVESLNRPTGAIEIV*SIAY QPKKVQDQMQDSQANSTRGTRR NWYHSF*TIPINRKRGNP*TLM QKSSIKYWQTESSSTSKSLSTMI KWASSLGGKAGSIYANQ

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7453	37821	A	7507	1	1577	MGDFNTPLSTLDRSMRQKVNK DIQELNSALHQADLIDIYRNLHP ESTEYTFFSAPHHTYSKIDHILG SKAPLSKYRRSEIKINCLSDHSA IKLELRIKKLTQNRSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDTTYQNLWDTLKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTTHSKASRRQEI SKIRGELKEIETQKTLQKINESR GWFFEKINKIDRLLARLIKKKR EKNQIHAIKNDKGDMSSTNHTEI QTTIREYYKHLVANKLENLKEI DKFLETYSPLRLNQEEVESLNR PITGSEIEAIINSLPNKRSPGPDG FTAKFYQRYKEELLISNFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRMKYLGIQPT RDMKDLFKENYKPLLNEIKEDT NKWKNIPCSWVGRINIVKMAIL PKNWKKTTLKFIVNQKRARIA KSILSQ/IEQSWRHAT*LQTLIQ GYNNENSMVLVSKQRYRSMEQ NRALRNNATYLPQPSDL
7454	37822	A	7508	58	330	FTENDDFQFHPCPYKGHELIIFY GCIVFHGVVYPHFLNPVYHCW TFGLVPSLCYCE*CRNKHTCAC VFIAA*FIVIWVYTQ*WDGWVK WYF
7455	37823	A	7509	1246	1522	DCLGNAGSFLVPYELGHYGHF HNIDSSYQ*AWMFFHLFVSFFI SLSSGL*FSLKRSFTSLVSWIPR YFILFEAIVNGSSLMIWLSVCLL
7456	37824	A	7510	140	577	YSMVYMCHIFLIQSIIVGHLGW FQVFAIVNNVTINIRVHVS*LQ DL*SFGYIPSNWMAGSNGISSR SLRNRHTVFHNG*TSLSHQQC KSVPISPHPLQHLLFPDFLMIAIL TGVWRWYLIVVLICISLMASDDE HFFMCFLAA
7457	37825	A	7511	399	677	NQREQRHNIPESLGRISQSSV*RE IYSTKCPQEKAGKIQN*HPNITI KRTRKARANTFKS*QKARNN* NQSRTTEGNRDTKNPSKNQ*IQE LVF
7458	37826	A	7512	1446	1855	IYKLPWAVWPFS*Y*FFLPMS/G GVFFHLFVSSFMSLSGL*FSLK RSFTSLVSCIPRYFILSEAIVNGS SLMIWLSVCLLLVYKNACDFCT LILYPETLLKLSISLRFFWAETM GFSRCTIMSSANRDNLISSFRN

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7459	37827	A	7513	1	2982	
7460	37828	A	7514	5202	5430	
7461	37829	A	7515	2	454	
7462	37830	A	7516	2	744	
7463	37831	A	7517	1	2422	MCPILREHRGSTEGRKRRQKRLP LELTLKDEEVLAHRQEIEVAKA SPSKGNIIHFGYKGV EYHDQQ DVTSNFLGAMWLISITFLSIGYG DMVPNTYCGKGVCLLTGIMGA GCTALVVAVVARKLELTKA EK HVHNFMMDTQLTKRHCPWAA TIQPKLSFLISLPGCDYRGESAR ARPLSHPPQLGLGKDARYLRI CDRSLLCVCAAAGNAGLRPRD SPHTLLHWRSPYFFSPKPVPP QLLGGQPAHSSRRDDLGEAGV GRGGCCFAALRGVQSEKWSGF HTVPEPAPGQGDVMPIVLVRPT NRTRRLDSTGAGMGPSHHQQQ ESPLPTITHCAGCTTAWSPCSFN SPDMEPLQFQRGFFPEQPPPPP RSSHLHCQQQQSQDKPCPPFA PLPHPHHHPHLAHQQPASGGSS PCLRCNSCASSGAPAAGAGDNL SLLLR TSSPGGAFRTTSSPLSG SSSSSSSSSRRGSQLNVSELT SSHASALRQYQAQSAQQSAS ASQYHQCHSLQPAASPTGSLGS LGSGPPLSHHHHHPHAPHQH HQPQARRESNPFTEIAMSSCRY NGGVMRPLSNLSASRRNLHEM DSEAQLQPPASVGGGGGASSP SAAAAAAAVSSSAPEIVVSKP EHNNSNNLALYGTGGGGSTGG GGGGGSGHGSSSGTKSSKKK NQNIGYKLGHRRALFEKRRLS
7464	37832	A	7518	1	579	

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7465	37833	A	7519	1	1184	MSSANRSILEVPHLDILLQELPG VSKVVTVEVRGNWQRWLKVR DLTKGVTYFFRVQARTITYGPE LQANITAGPAEGSPGSPRDVLV TKSASELTQWTEGHSGDTPTT GYVIEARPSVFGNGSFQVSKEE NQYFSEGLTSIEVPSQQVQQEG AVAMALMVPDEGLWDMFVKD IPRSATSYTSLDKLRQGVTYEF RVVAVNEAGYGEPSNPSTAVS AQVEAPFYEEWWFLLVMALSS LIVILLVVFALVLHGQNKKYK NCSTRQGISTMEESVTLDNNGG AALELSSRHLNVKSTFSKKNGT RSPPRPSPGGLHYSDDEDICNKY NGAVLTESVSLKEKSADASESE VSVGAYFRAVTISPYFCKDAGF AVRTIALGLAETAGSKADARK
7466	37834	A	7520	1	1347	
7467	37835	A	7521	512	1051	MAYCKSTPAVGLRVTV*SL SRL SLICYTFCIGAPSHLSVGLIAT SFIVSNRPCRAPYVDTIYRLPSP LRLAGHRTLPLKPSFPRRSPPLL YYPSRPPAHYPLSPSSEPNNRY TMALTAVPYPYTSPLQAFPFLH SRIPQLQLFLLTNSFTSRTPVEP VQVLEILSQWKATTKWHYG
7468	37836	A	7522	352	546	
7469	37837	A	7523	1	360	
7470	37838	A	7524	3	349	
7471	37839	A	7525	1077	2142	SAVRYSAITTA DRRTAAGAIS YPTK*S*SEPIQEGQPEEQ/RAN YPNGTYPTSLRHLERLWLSAL SVKARF/YHQQYSLKKYRYKHI ADNVCQWLDEVFLRPKEMSDI HKLTFIEKRERLKNVFKSLHD VRTVEDPSGTQLEVVSNNPWD PKRQLKWDGTKWTGWDIPD YSAAPPEAVPSLNNPQTFSEQK LDEALYHGAVLRVRPKAMTVA VIIAGLLPILWGTGAGSEVMSRI AAPMIGGMITAPLLSLFIIPAAY KLMWLHRHRWLKCKSARRPQ YQSGYTDDRHSRSVKASPTAG LPSLTHEQQQKAVERIQELMAQ GMSSGQAIALVAEELRANHSGE RIVARFEDEDE

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7472	37840	A	7526	116	191	RLKFTETNLYTNIYVGSIIHLN LEIIHMSLH**MDRTNINIRVQIC FCEFKSLVLLDKPGRQELIDDL NKRTDNFLTDSGISVSDWIDAA TWEVFSSLRELELLGIKNIRLAS QDLHGVLSSSETVAEDIWCRILD TVTRKGEHSRRIHSADDSYLR PDLEWFKQRVEDDQSRSGRKI YVKRDLPHILTPFRAPMASVCA KRKGQVLHQYSLKKYRYKHI ADNVCQWLDEVFLRPKEMSDI HKLTFIEKRERLKNVFKSLHD VSEFLGRVLLHATDPAAPRKPA YSLHAIRGKSRGRKNS
7473	37841	A	7527	1	177	
7474	37842	A	7528	1	399	
7475	37843	A	7529	3	209	
7476	37844	A	7530	1	288	
7477	37845	A	7531	2	256	
7478	37846	A	7532	414	1188	TSFLTGGKKGS\KKKVVDPF KKD/WL*YVKHPAMFNIRNIGK DVGSPRTQGTKIAS\DLKG\RV FE\VSLADLQHDEVAFRKFKLIT \EDVQGKNCLTNFHGMDLTARD K\MCSMVKKW\QTM\EAH\VD VKT\DG\YLLRLFCVGF\TKKR NNQIGKPF*AQ\HHRVRQIGKK MMEIMTREVQTNDLKEVVNKL IPDSIGKDIEKACQSIYPLHDVF VRKVKMLKKPKFELGKLMELH GEGSSSGKATGDETGAVERA
7479	37847	A	7533	1	1140	
7480	37848	A	7534	131	410	
7481	37849	A	7535	1	861	
7482	37850	A	7536	1	406	MWEILELPRDLLNGFAQNADS NMDNKVQAEVALDGNELVG YYSKASAGDTQANRVWSGPPA NSNRPAEGERNTININKKDIN TKTPSVGHRHQRPVKDKTTKT R\KTRAELKILKTRVPLIFQRT AALRQR
7483	37851	A	7537	1366	1629	TQSPVQTKPTPITTRGGGFLPTQ PFPVILQRQFCPE*LVAFMGS*E DVP*GSFRVSAESSIL*RAP*GA QSTCKPVNRNEKISKRIVH
7484	37852	A	7538	502	648	

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7485	37853	A	7539	1	1169	PPLLIPRQTGSGVDLQQTPTDLQ LRVLTVRRKTNKQKGHPHQNSI CTSPSSKTKDFKPTKIKRDKEG HYIMVKGSIQQEELTILNIYTPN TGAPRFIKQVLRDLQRDLDSHT IIVGDFNTPLSTLDSSKRQKVDK DIQELNSALYQADLTDIYRTLH PKSTEYTFPSAPHHTYSKIDHIV GSKALLSKCNRTIITNCLSDHS AIRLELRIKKLTENRSTTWKLN NLLLKDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDTGKAAC RGIFIAINAHKRNRQKRSKMDTL TSQKLELEKQEQRHASKASRRLN QEEVESLNKPRTGSEIEAIINSLP TKKSPGADGFTAIFYQRYKEE/ PGTIPSETIPINRKRGNTP*LIL*G QHHPDTKA
7486	37854	A	7540	1	404	MDEFLNTYTLPRLNQEEVESLN RPITGSEIVAINSLPRKKSPPGPD GFTAIFYQRYKEELVPFLKLF QSIEKEGILPNSFYEASIIIPKPG RDTTIKENFRPISLMNIDAKILN KIILANRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRT KDKNHMIISTDAEKAFDKIQQP FMLKTLKKFGIDGTYLKIRIKYL GIQLTRDVKDLFKENYKPLLNE IKEDTKKWKNI PCSWVGRINIM KMAILPKVIYRFNAIPIKLPMTF LLEKTTLKFIWNQKRARIAK SILSQKNKAGGITLPDFKLYYK ATVTKTAWYWYQKRDIHQWN TTEPSEITPHIYNHLIFDKPEKNK QWGKDSL FNKWCWENWLAIW RKLKLDPFLTPYTKINSRWIKD LNVRPKTIKTLEENLGITIQDIG MGKDFMSKTPKAMATKAKIDK WDLIKLSFCTAKETTIRVNRQ PTKWEKIFTYSSDKGLISRIYN ELKQIYKKKSDNPIKKWVKDM NRHFSKEDIYAAKHKMKKCS SLAIREMQIKTTMRYHLTPPSLL IPRQTGSGVDLQQTPTDLQLKV LTVRRKTNKQKVHPHQNPICTS PSSKTKELEKQEQTTHSKASRRQ EITKIRAELEIETQKNLQKINES RSWFLEKVNKIDRLRLARLIKKK REKDQIDA KNDKGDITTDPTTEI QATIREHYKHL YANKLENLEE

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7487	37855	A	7541	3	1284	SAADTQANRVWVSPPTNSNRP AAEGPDC*KEN*QKGHPHQNP CQSPSSK\PKVDKTTKMGKKQN RKTGNSKNQSTSPPPQEHSSSPA MEQRITNAEKYLKDLMEKTT AQELHDECTSLSSPFDQLEERV SVMEDQMNMKREEKFREKRI KRNEQSLKEIWDYVVRPNPLI GVPESDRENGNKLENTLQDIIQ ENFPNLARHANIQIQEIQRMPQ RYSSKRATPRYIIVRFTKVEMK EKMLRAARDKSLVTHKGKLR LTAGKFIALIAHKGNGERSKIDT LTSQLEKELEKQEQTHSKPSRRQ EITKIRAELEIETQTTLQKINES RSWFFEKINKIDRLRLARLIKRR EKNQIDAINDKGDITDPTDTEIQ TTIREYYKHHYANKLENLKEM NKFLDTYTLPRLKQEEVESLNR PIKALKLRQ
7488	37856	A	7542	1	1082	MLSSVGLLLTHRRKKKSTDTIN DESLNKERDMTGNPHIFPRYQE IWQVFVSSGNNYITTATGPTAV PPLLIPRQTGSGVDLQQTPTDLQ LRLTLVGRKTNKQKGHPHQNP CTSPSSKTKEIRTTIREYYKHLY ANKLENLEEMDKF/H*HIHPPKT KPGRS*ISA*TNRL*N*GNN** LTNQKKSRTWIHSRILPEVQG GADKQRAKHE*TPHNCFKENK IPRNPTYKEHEGPLQGELOTT QGNKRGYKQM/DRTFHAHG*E ESIS*KWPYCPR*FIDSPSPSSYQ *LSSQN\GKNYFKVHMEPKKSP YCQVNPKEQSWRHHAT*LQ TILQGYSNQNSMVLVPKQRYRP MEQSPQK
7489	37857	A	7543	1	2012	MNLSRHLNEVKGELLWSLEWR DPDGGIRMEVGLGGWTQRLE EEKKGNVCSHGNLEKDFPIPH LFGLQKKMDLKGVFKSCFKI YCSSKHLLKTGFISEAVLCYGE GGEGDTVLTMKERWPHCEVLI QCNKGRLTPHTARYSSETKLPE ERSGSSICGSPISAVLQPPLLIPR QTGSGVDLQQTPTNLQLRVLT VRRKTNKQKGHPHQKPKMSPS SKTKDFKPTKIKRDEKGYHIMV KGSIQQEELTILNIY

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7490	37858	A	7544	402	675	QGYPGTELSSAPSGPNRHLQNF PPQINRIYILLSTTSHLFQN*PHS WK*STPQQM*KRRNYNKNQQL ELRIKKQTQNRSTTWKLNLL NDY
7491	37859	A	7545	21	428	DKTSRGTIQQHLLFTNIRCSAA SAADTQANRVWSGPPANSRDP AAEGPDC*KEN*QTERTSTPKS HLYVTIHKDQRNKIPKNPTYKG CEGPLQGELQTTAQQNKRRYK QMQEHSMLMGRKNQYHENGH TAQGNL
7492	37860	B	7546	1	1650	
7493	37861	A	7547	1	946	MAMPPLLIPRQTGSGVDHQQT TDPQLRILTVRRKTNTQKGHPH QNPNTSPSSKTKELKEEVGTQ RKEVKNLEKRLDEWLTRIANA EKSLKDLMLKLTMAQELQLDK TTLNFIWNQKRACIAKTILSKK NKAGGIRLPDFKLYYKATVTKT AWYWHQNRIDQWNRTEASEI MPHIYNHLIFDKPDKKKQWGN DSL/K*MLGKLASHMQKTEI GPLPYNFYKN*LKMD*RLKGK T*NHRNHRRKPKQYHSGHRHG QRLHD*NTKSNGNKGQN*QMG SN*TKELL/RQQKKLPSE*TRNL QNGRK FVQSIYLTGK
7494	37862	A	7548	189	380	QTERTSTQNPICSPSSKTKGR* NHKDGEKTEQKNWKL*KAERL SSSKGMQLLSSNGTKLDGE
7495	37863	C	7549	1	2805	
7496	37864	A	7550	535	696	
7497	37865	A	7551	214	363	LLEGKLTNRKE*HQHQKKGHP HQNPICSPSSKTKVT*NHKDG EKT*QKS
7498	37866	A	7552	787	1056	GQKKKLMIIIGINSRNHHGPO*P ALQKMPAS*VTEIMNNHFLFCF RKGKGRIKLVNSRVEHQAGSW GPWFQSLVAGQYFWTCSPDG SPLP

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7499	37867	A	7553	1	4560	MKHTLIPRIKNACLQMSSLAVP VNSLVCLGKILEYLDKWLVL GILPFLQQIPSKESAVLMGILGIY KCTFTHKLGITKEQLTGKVLPH LIPLSIENNLNQFNSFISIIKEML NRLESEHKTKLEQLHIMQEQQK SLDIGNQMNVSEETKVTNIGNQ QIDKVFISHIGADLLTGSDSENK EDGALNVPPAGAKPTQQRPTD MSALNNLFGPQKPKVSMNQLS QQKPNQWLNQFVPPQVSPATG SSVMGTQMN MIGQ
7500	37868	C	7554	1	1359	
7501	37869	A	7555	272	915	YPGKQGLEWTSSKLQQTCC*GS *LLEGKRTNRKDINTKNPSVRH HHQRPKMGEKTEQKNRKLKIR APLLQQRNTAPH/HAMEQSWM ENDFDELREEGFRRSNYSELKE EVRTNAKEVKNFEEKLDEWIT RITNAEKSLKDLMEKTTAEN YVTNAQAPVANATN*KKGYQR WKT*MK*SEKRSLEKKE*KEK KQSLQEIWVYVCRPNLCLIGVP
7502	37870	A	7556	196	494	HTDGVSVWMSFLVFSFSPNSQD PQLQVCWSLLEVHSRCLPGYQ QQRIRLEPFKINV/T*ADHEAYR KTAVRRCSQTTQQAWEQSAHQ QHIRH*SCRYPG
7503	37871	B	7557	28	303	
7504	37872	A	7558	1216	1863	HPDITIKRTREARANTFKS*QKA RNN*DERRTEGNRDTKNPSKKS VN/RRSWFFEFKNIDRRRLARLI KKKREKNQIDAINKDKRDITD PTEIQTIREHYKHL YANKLEN LEEMDKFLDTYTLPRLNQEEVE SLNRPITGSEIEAIINSLPTKKSP GPDGLTAKFYQRYKEE/PGTIPS ETIPINRKRGNPP*LIL*GLHHPD TKAWQRHYKKREF
7505	37873	A	7559	166	785	FRATSAADTQANRVWSGPPAN SNRSAAEDPDC*KEN*PTKGHP HQNPICTSPSSKTKARQANIQQ EIQRMPQRYSSRRATPRCIIVRF TKVEMKEKMLRAAREKGQVT HKGNPIRLTADLLVKTLQARRE WGPIFNILKEKNFQPRISYPAKL SFISEGEIKSFTDKQMLRDFGTT RPALKELLKEALNMERNNQYQ PLQKHVRL
7506	37874	A	7560	1	1164	

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7507	37875	A	7561	770	2670	RRARCSCAPSSTTTLGRTGPSLA RRRACPSSAGRSWRW*ARTTPR GGRPSESGTPTFEPASSPPRGSR RDFQEGQSWVRGWQL/WTSTV GCSPHIFWCVDCECDCEGYLK GHYVAGLRRSFRLLGCRERLGG QEGKMSSGAESPELLTYEEVAR YQHQPGERPRLVVLIGSLGARL HELKQKVVAENPQHFGVAVPR APWDVKLQWAEDPGSECDKE DEEEENEGARFLEHGEYKENLY GTSLEAIQAVMAKNKVCLVDV EPEALKQLRTSEFKPYIIFVKPAI QEKRKTPPMSPACEDTAAPFDE QQQEMAASAAFIDRHYGHLVD AVLVKEDLQGAYSQKVVLEK LSKDTHTWPLVIPRQTGSGVDL QQTPDQLRLVLTVRRKTKKQ KGHPHQNPCTSPSSKTKVGER VSVIEDQMKEMKREKKFREKR VKRNEQSLQEIWDYVKRPNLR LIGVPESDGENGTKLENTLQDI MRENFNRRARQANIQEIQRM PQRYSSRRATPRHIIIRFTKVEM KEKMLRAAREKGWVTHKGKPI RLTADLLAETLQARREWEPFNI LKGKNFQPRISYPAKLNFISEGE IKSFTDKQMLRDFVITRPALQEL LKEALNLERNNWWYQPLQKHAK
7508	37876	A	7562	181	690	QHAIVTGDVGMDDIPQEARQ YRHNQAYAYSIIQGDGAEDDDE RIVRFHTRCLNGRVLL*DK/IFQ RNDQAATFAAHQYPLFCSLHC* YPGTQGLEWTSSKHQQTCS*GS *LLWPGDERLWPSWEEQKKLS LPTDPDTWL*GSPQAAQGPCV PPPGAQPLSSVTASLCHCA

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7509	37877	A	7563	2	2233	SSENILTVHEQANVESLKETKQ NCKDLDEDANGITDEGKEINEK SSQKLNLSLQDTSLQHDDEEE STVISVSEDMNSEGNVDFECDT KLYTFLSSDESQQSENENEED TLCFVENSQGQRESLSGDTGSLS CDNALFVIDTTPGMSADKNFYL EEEDKASEVAIEEEKEEEEDEKS EEDSSDHDENEDEFSDEEDFLN STKAKLGRLTPHMAGYSSETKL PEERPGSNICCSPIASVLQPPLLI PRQTGSGVDLQQTPDQLRLVL TVIKKTNKQKGHPHQNPICSTP SSKTKDRSTRQKVNKDIQELNS ALHQADLIDYRTLHPKSTEYTF FAAPHCTYSKIDHIVGSKALLS KCKRTEIITNCLLDHSAIKLELRI KKFTQNCSTTWKLNLLNDY WAHNEIKAEIKMFFETNENKDT TYQNFWDTFKAVCRGKFIALN AHKRRQERSKIDTLTSQKLELE KQEQTHSKASRRQEITKITAEL KEIETQKTLQKINESRSWFFEKI NKIETASKTNKKREKNPIDAIK NDKGDITTNPTIEIQTIREYYKH LYANKLENLEEMNKFLDTNTIP RLNQEEVESLNRPTGSEIAIIN SLPTKKSPGPHGFTARFYQEYK EE/PGTIPSETIPINRKRGNPP*LI L*GQHHPDTKAWQRHNKKREF *TNIPDDHQCKNPQ*NTGKPNP AAHQEAYPP*SSGLHPWDARL
7510	37878	A	7564	3	377	DHNCATVLQPG*QSEIL*KEERE REREKKERKKERKKERKKERK KEGKQ*RKGGRRKKERKEKEIK KERRKGKKEKKEEEKRRKERK KERERKKRRKEGRKKEYTRKA KRIHRPFEGNGSPLPAP
7511	37879	B	7565	1	834	
7512	37880	B	7566	1	915	
7513	37881	B	7567	1	666	
7514	37882	A	7568	330	793	SCWLCPGPCCPAQPQNTAPPIPE A*TPAMAERGPATAAGQLEFT GGALQTLFAWVSAAAAAEQWI LVNRKCCCLIVPLEVLSQRSTW PCIGLVMPVLPGLLRDIVHSDSI ASHYGVLLALYALMQFLCAPV LGALSDRFGRRPGLLASLLGAT

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7515	37883	A	7569	991	1842	IQCHPHQATKNFLHRIGKNYFK VHMEPKKGPCHCQVNPKEQS WRYVKQSKKIAVYAERSRCSP GTEFAGTLILDFPSSRTAPSSRG R/P/GRLTRPGTPLRQSFQRNDQ AATFAVQQYSLFCSLCC*YPGK QGLEWTSSKLQQ/YLQLRERSS SPATEQSWMENDFDELREGFR RSNYSKLKEEVQTHCKEAKNL EKRLDEWITRITNVEKSLNDLM ELKNMAKELRDERTSFSSEFNQ LEERVSVIENQMNMKREEKFR EKRVKRNEQSLQEIWVYVCRP
7516	37884	B	7570	1	2448	
7517	37885	B	7571	2379	4476	
7518	37886	A	7572	1	570	
7519	37887	A	7573	1	1404	
7520	37888	A	7574	1	474	
7521	37889	A	7575	746	1215	PNINRFLKHYREPVPKKRERNY STLWPLCPSTLNKIYTIMSYLSP ATKEYPFFLLLLLEQEC*AE*LLA LAVSQPLLSSTTNCLKN*MTW NGSLIPWSPCKINLTP*/PAVVL QNRRALDLLTAESGGTFLFLEE KCCCYVNQSGIITEKVKEIQGRI
7522	37890	A	7576	1	1178	MPESPTPLLGRDILAKAGAIHL NIGEGTPVCCPLLKEGINPEVW ATEGQYGRAKNAHPVQVKLK DSASFYQRYPLRPEAQQGLQ KIVKDLKVQGLVKTCNSPCDTP ILGVQKPNGQWRLVQDLRIIDE AIVPLYPVNPYTLLSQIPEEA ELFTVLDLKDFAFFCIPVHPESQF LFAFEDPSIPMSQLTWTVPQG FRDSPHLFHHTLAQDLSQFSYL DTLVLCPLRNQQECHQATQV LLNVLATCGYKVKSKQAQLCS QQVKYLGVKLSKGTRAL/QQ*R TDRT*LSTSNCSNLRHSRGPSRG SLD*SQPQLVY*WKFFCRKRTS KRGVCSGQ**WNT*KKSPHSRN *CSAGGTNSPPSGTRIRRRKGL IRIYMLPLILSAPYDHLH
7523	37891	A	7577	1	1338	
7524	37892	C	7578	109	231	
7525	37893	A	7579	279	346	LLRLALLLQ*QKEEWVLFCCGA
7526	37894	A	7580	260	393	VEVVILPMPVNPVLPISIPARITKG RMGTLLLRGLGTT*LYKSCSV

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7527	37895	A	7581	3	2677	TKETCFIRGPKTPVPVTDWEGS LPLVFNHCRDTSVIIIHPRFKGVR PRRDACLGPSPLAASPAFLGKG QAELGPNSSASAPPPYNLFAS PPHTWSGLQFRSVTSPPPAQF TLKKVAGAKGIVKRLKTDAR SPWKTPRPSRTPSFRKAERTKG LLKIHCLKLSHQLKKDWTILLP LSLLRIQACPRNATRLATGQLG YPFISQSYVLVNGFQTVEDLCE AADLRVSVADLRVSVTALKVA RLELFVPPGGLVVSLASAVKLQ TFAVLQLIAKRWDTGTEQ AALIGEARDQAQTEGVGGSG MAGCRSRDLPRGKAARREI ERSAGLTIKKERCIRNGYSKEK MKLIVVSHGLHVNDLQHKLT FTKETYTYLARDSEKQKQGYL AGLEGAHANRVNQISDNLVV KTGALPPPYRTKGEKLYFYMSR QNCLFSVSGQLLQGFFPNGGQA APNPYALLSQIPEEAEWFTVLD LKDDFFCIP/VHPDSQFFAFEDP SNPTSQLTWTVLPQGFRLHFG QALAQDLSQFSYDLTVLCGVL KSPHIVWELNQIDTIKNDKGDIT TDPTEIQTIREYKHLTYTNKLE NLEEMDKFLNTYTLPRLNQEEV ESLNRPTGAEIEAIINSLPTKKS PGPDGFTAIFYQRVADVKLREE KDENMLLVPLSDLLYQVHAIP QLPEVLAANSPTCHLDPTTITES
7528	37896	A	7582	1	459	MAVRYTDENVLRKGTREAGT MMRLRGTTTECCADFAAWDVT HDALRATGGELPGAQVMLTTT ECGRHVDFCDRAVWLPRMWG YPLALPGEMRKLYTVRMAGRD ILAKAGAIHLNIGEGTPVRCPL L/EGINPEVWKTEGQYRQAKNA RPVQVKL

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7529	37897	A	7583	3	910	YFSQPLSY\DWGALFFSHAFLIM LESPTTLLGRDILAKAGAIHNLN GEGTPVCCPLLEEGINPEVWAT EGQYGRAK\NARPVQVKLKDS ASFPYQRQYPLRPEA/LTKGFQ KIVKDLKAQGLVKPCNSPCSTPI LGVQKPNGQWRLVQDLRIIDE AIVPLYPVNPYPYTLLSQIPEEA ELFTVLDLKDAFFCIPVHPESQF LFAFEDPSIPMSQLTWTVLPQG FRDSPHLFHHTLAQDLSQFSYL DTLVLCPLRNQQECHQATQV LLNVLATCGYKVSQKQAQLCS QQVKYLGVKLSKGTRAL
7530	37898	A	7584	158	1272	NPAARTPFFVIKKGGKGRDIL AKAGAIHNLNIG/GTPVCCPLLE EGINLEDWATEGQYGRAKNAR PVQVKLKDSASFPHQYQYPLRP EAQQGLQKIKDLKAQGLVKAC NSPYNNPTLGVQKPSGQWRLV QDLRIINEVTVPLYLAVPNPYIL LSQIPEEAEWFTDLDLKDAFFCI PVHPDSQFLFAFEDPSNPMSQL TWTVSPQGFRDSPHLFGQALA QDLSRFSYLGTLVLWPCISI/LCT *TMEQLQHRNKHHRFSRTSCF QSGNNPYLKPHLCKI*QYCRHN QLPMHQCPHDHLH*TRFI/PIML YLSPTTKEYSFFLLLSEQEC*VD *VLALAVPQPLLSSTTNYLKNS MVTWNGLPTPWSCKINLTS

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7531	37899	A	7585	1	2083	MPLLQMIATPLQQSLISTEDEM DELTEVGFERWVITNFTEEPSA LGFTPEHKGNVGHAGKGPLESS SPDPFLCGQEKQEKGAGLLHRQ YPLRLEAKQGLKKIVKDLKAQ GLVTPCSSPCNTPTLAVQKPNG QWRLVQDLRIINEAVVPLYPAV PNPYILLSQIPEEAEWFTVLDLK DAFFCIPVHPDSQFLFAFEDPSN PMSQLTWTVLPQGFRDSLHLFG QALAQDLSQFSYLDTLVLQYM DDLLLVTHTSETLCHQATQALFN FLATCGYMVSKPKAQLCSQQ/R YLGLKLSKGTRALSEEHIQPILA YPHPKTLKQLRGFLGVIGFCRK WIPRYGEIARSLNTLIKETQKAN THLVRWTTEVEVAFQALTQAP VLSLPTGQDFCSYVTEKTGIAL GVLTQIRGMSLQPVAHLTKEID VVAKG*PHCLR VVAVAVLVS EAVKIIQGRDLTVWTS HDVNGI LTAKGDLWSDNCLLKQCALL LEGPVLR LCTCATLNPATFLPD NEEKIKHNCQQVISQTYATRGD LLEVPLTDPDLNLYTDGSSFVE KGLRKVG YAVVSDNGILES NPL TPGTSAQLAELIALTWALELGE EKRANI/YTDSKYAYLVLHAHA AIWKEREFLTSERTPIKHQEAIR KLLAVQKPREVAVLHCRGHH KGKEREIQENCQAYIEAKRAAR
7532	37900	A	7586	80	678	LCCNMPAAQHRERASNESRHG GCCPP/PWLLSS/APPHDAFTTPQ EAVLSAPSALPSSAATSLLSLLT PQQMFCSKTAGPKPFSSNPHPR LKAPTSSC/PL*PQAAPSGNAHC Y*GHRRGRTVPEDPGCLSPRAR PHRTSGTSSPPSLQPSRTIPPASS APKQGDAGSPPYQAVPEKNKP GATPRTCAESPKRLPRPGPKSFL

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7533	37901	A	7587	3	804	GLLQATALQPAQQI*IFL*KKEE EEEGGGGEGEEKKKKKKTEEE EEEEERKK\EEEEEEEEEEEE EEEEKEERTGAGDSSEDEGFDEI PSPGDSRQKTEGNAANIISGCD QRYEESEMDLGRGIVSGHRYI FTFRVSPLEAIGELLFPFSVAPA QGGLGFRRVDQLALPMGAQSL ERPFCVDGGSRPPLNYAVSSVE DLLNGNNFKCPTTLRTIEITVGN LIISPRQQLNANIGKNFNAEN HENAKTTTRSSTVGADTHLTA
7534	37902	A	7588	3	191	SSHPVFSRWWLSPHPQSQCYT* GSGAQNLTA SPPFCVCRGDRGN HLRKDTKVEVKRKT CWL
7535	37903	A	7589	1	1899	HVGASDPDAGPGWGGLTSRPR LVTPRSAPRGRAFGATVGLAP VEGMCRAESSGGVSTDHSELPI GAAATMAHEIGHSLGLSHDPD GCCVEAAAESGGCVMAAAT/G VRGWGVGAAAGRLVLGTSSA AFLWSSLSFLFCKMGIMIIVSAS GWFMRKKGKKLRQSGFSTV*R LFSE*PGEVTPTPGGAPSGRDST LGPGLLTIGASSPVPLVV*LCA GYFPSLGSARLA AVAKPRGGD QRSAGVGGLSLHAQCPRAGR HPFPRVFSACSRRLRAFFRKG GGACLSNAPDPGLPVPPALCGN GFVEAGEECYCVS\GQECRDLC CFAHNCSLRPGAQCAHGDCCV RCLLK PAGALCRQAMGDCDLP EFCTGTSSHCPPDVYLDDGSPC ARGSGYCWDGACPTLEQQCQQ LWPGSHPAPEACFQVVSAG DAHGNCGQDSEGHFLPCAGRD ALCGKLQCQGGKPSLLAPHMV PVDSTVHLDGQEVTCRGALAL PSAQLDLLGLGLVEPGTQCGPR MVCNSNHNCHCAPGWAPPFCD KPGFGGSMDSGPVQAENHDTF LLAMLLSVLLPLLPGAGLAWC CYRLPGAHLQRCSWGCRQGPC VQWPQRWPTQGPPGRRSPHG VGPHSHWTALAPGP
7536	37904	A	7590	2	280	
7537	37905	A	7591	1	1266	

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7538	37906	A	7592	1	458	LQQSQIFEIHSQKTIVKKCLDLF FELAEKENYKNFFEAFSKNLAK LGIHEDSTNRRRLSELLRYHTS QSGDEMTSLSEYVSRMKETQK SIYYITGSPCWCLVFFSLSCPCV EGSKLRVSSPIPSLLLTAGLDVV YCGLFYFLHFVLKLYAK
7539	37907	A	7593	1	862	
7540	37908	A	7594	3	437	IPEF/LNF/IRGVVTLGLPLNISRE MLQQSKILKVIKKNIV*EC/LFEL LSELAEDKENYKKFYEAFFSKNL KLGIEDSTNRRRLSELLRYHT SQSGDEMTSLSEYVSRMKETQ KSIYYITGESKEQVANSFAFVER VPLSHLAPPAGV
7541	37909	B	7595	106	1966	
7542	37910	A	7596	453	719	ARGSKHTGLIAQWAHEQSGHG GRAGGYAWAQHGLPLTKAD LPAMATAECPICQQQRPTLSR YGTIPW/WAWDAPGGRGWCRL QKAGE
7543	37911	A	7597	3	837	PECVIGIDILSSWQNPFIGSLTG RVRAIMVGKAKWKPLELPLPR KIVNQKQYHILGGTVEISATIKD LKDTEAVTPTTSPFNPIWPVQ KTDGSRWMTVDYCKLNQVVT PIAAVPDV/VSLLEQINTSPGT WFEWSPK\KALQQVQAAVQAA LPFGPYDPADPMVLEVSADR DAIWSLWNAAGESQRRPLGF WSKALLSSADNYSPPERQLLAS YWALVETERLTVGHQVTLRPE LPIMNWVLSDPSSHKVSGAQQ RSIIKLKWIHDWVRAGPEGT
7544	37912	A	7598	1	399	
7545	37913	A	7599	126	392	ARGSKHTGLIAQWAHEQSGHG GRAGGYAWAQHGLPLTKAD LPAMATAECPICQQQRPTLSR YGTIPW/WAWDAPGGRGWCRL QKAGE
7546	37914	A	7600	1	1677	
7547	37915	C	7601	37	465	
7548	37916	B	7602	1805	2542	

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7549	37917	A	7603	3	865	VIPTTSQFNFIWVPVQKTDGSW RMTVDYCKLNQEENFNNQVDR MTHSVDTTQPLSPATHVITQWA HEQSGHGGRDGGYTRVQQHGL PLTKADLATAGKVFQKAV*AL N*HSIYGTLSLIARIHRSRNQGV EVEVAPLTISPSDPPAKFLLPVP PTLRSAGLEFLVPEEGMLPSGD TTVPLNWKLRLPPGHFGLLFPL HQQANKGRLSPHSRERGTSVFA SSNSQPVTALNNEPAGPNKRDI GKAKGLKFHHPPGPHRQERDML E/SML*PWGYPVGKQWNHLIK KQGRH
7550	37918	A	7604	3	857	VTASLSPVVATSPQPMLPSDFP PLSEEINPMLPEATVIASPEIAR QDNVDSPQEPPPTPQFSSRPITR LKSQWAPRGPECVIGIDILSSW QNPHIGSLTGRVREGYMGKA KWKPLELPLPRKIVNQKQYCIP GEIAEISTTIRDLDKDTGVVIPTTS PFNSSIWPVQKTDGSWRMTVD YCKLDQVVTPIAAAVPDMVSL VKQINTSPGTWQHITHLDVLLW RIYQVTQKAASFEWGPEQEA LQQVQAQAAVQA\CHLGHMTQQ IQWCLRRNGEMCDYILIYGL
7551	37919	A	7605	1	608	MAPGMVPIPPPGKYHSPKKLIY STPPKPGTYGISDLSQYPTSAK AEPVPTHKNPRRESPIHSSPSSF TDG/PSPNSPGDARPHPQNKTS RGRPAPRQVRPTTITTPAPPARS PNSAHSPAFRDLPFRAEKGTA ARVPREPHSPAPPKNKGSQPP AGELLQRGARTTLPRILGTAPG PHLPGCSAPPAP*RPAAPIGL
7552	37920	A	7606	179	544	HTRLHSHPLRGFSPWLFHSVSI RSPASGHLEFPFARSSGSGSTS PLSFGAMTTEKQALGGRAAFPP KYK*AQGRAACFVLTSQQQPS WQ*GVTVTATGSPMHRGTFWH SCTGTPGSGDR
7553	37921	A	7607	90	653	VPGERPRGQSGPQVLPYGPTWC SSNTPEPQSLRAPQ*LQVPVPLQ SRGQR*QPQMP/VRSQPKAP*V QMPPTSSAKGPHLDGVRVPA ANPE*PTAGPTRAAILRATPAPS LPMPGTNRPSRGNLQDSAPA SDAGWPTEAVTCP/PWSREN PQRNL*AHRPQGPRPVPGTERR NGRGGAGCRQL

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7554	37922	A	7608	1	804	
7555	37923	A	7609	28	682	TTCEMSDLEDDETPQLSAHG/T LAALQEFYAEQKQIEPGEDDK YNIGIIEENWQLS\QFWYSQETA LQLAQEAIAAVGEGGRIACVGS P*CLPET/HESCAEKTFSIYIFEY DKRFAME*KEVLIFYDYNPLD LPERIAAHSFDIV\ADPPPYLSG\ ECLRKTSETVQV\LTRGKILL\CT GAHHGRTGSRTPLE*RCARLFP RHTRNFGKWSFRLVYVNL
7556	37924	A	7610	1	611	MAPKAKMEAPAPPEAEAKVKA LKAKKVVLKGVHSH/KKKKKI RTSPTFR*/PLRLRRQPKYPWES VPRRTSTQISSGERPLENKQPRY PRESSPPPGEQAPKYPPPEERSPG ETRLDHLCLSIKFP/LTH*VLPM KKIEDNNTL\VPLVNVKANKH\ QIKQAVKKLYD\ADVAKVNTL\ RPDGEKNGICSDLAP\DYDALG CLPTKFGII
7557	37925	A	7611	1	1035	DKDSLCDSCKTSCSYNCSKPRS SWQDQDISSGTGLHSRLTLANT GKESKTVQASLDQQLGRLLSVS LRLGVEPSLQSSGNLLVSLLSR FITYKVTIVEWVKTYALGLDLK KSERPGFESELHSHNSCECAVS HLKPVHLRVSPMGHSEYYLVT TADYSEANGSQSAGDEFFQTQS FPSRQQALFRPKIQITIREYYKH LYANKLENLEEMDKFLNTCTL QRLNQEEVESLNRPTGSEIEAI NSLPTKKRPGPDGFTAKFNQRY KEELVIYKKFQIPCIVPELNSTIS ANSTNADTCTPKYVTFNSKGT AQNADSDSAGLE/CEPDVLHI** SLRLGVEPSLQSSGNLLVSLLS RFITYKVTIVEWVKTYALGLDL KKSERPGFESELHSHNSCECAV SHLKPVHLRVSPMGHSEYYLV TTADYSEANGSQSAGDEFFQTQ SFPSRQQALFRPKIQITIREYYK HLYANKLENLEEMDKFLNTCT LQRLNQEEVESLNRPTGSEIEAI INSLPTKKRPGPDGFTAKFNQR YKEELVIYKKFQIPCIVPELNSTI SANSTNADTCTPKYVTFNSKGT AQNADSDSAGLEWSLMFCISD KVSGDDDDADA VDS

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7558	37926	A	7612	3	573	KEETFSAWYVDGRVLVVIVTF GIILPLCLLNKLYLGYTSGFSL SCMVFFLIVVIYKKFQIPCIVPEL NSTISANSTNADTCTPKYVTFN SKTVYALPTIAFAFVCHPSVLP YSELKDP\SQKKMQMVSNISFF AMFVMYFLTAFGYLTFYDNV QSDLLHKYQSKDDILILTVRLA VIVAVILTVPV
7559	37927	A	7613	1	831	MSELEDRLFENTQSEESKGKRI KKNEVCLQDLKYSKLANLRD TGLKEEVYKKFQIPCIVPELNS TISANSTNADTCTPKYVTFNSK KKMQMVSNISFFAMFVMYFLT AIFGYLTFYDNVQSDLLHKYQS KDDILILTVRLAVIVAVILTVPV LFFTVRSSLFELGLRKQRFNLW PSIPVVTICILLVINLVGDLHTP P*RIFFGVVGSYILLNMLIFILP/S IFFILKITDQDGDKGTQRIWAAL FLGLGVLFSLVSIPLVIYDWACS SSSDEGH
7560	37928	A	7614	1	1118	FNCEIFYSF/SYGDEEISKTFALN ERRGEIKIIRKLD FEKIVSYQVDI KASDGAGLSGKCTVIIQVVDIN DNAPELTMASTSPIRENSPETV AALFSIQDRDS\FALRSLDYEAL QEFEFVRVGASDPGF\PALSSE\AL VRVL\VL DANDSSLFVLFPLQN GSAPCTEL\MPGAAEPGYLVTK QLLKATEPGLFGVWAHNGEVR TARLLSERDATKHRLVVLVKD NGEPPRSATATLHVLLVDGFSQ PYLPLPEAAPAQAEADLLTV YLVVALASVSSLFLLSVLLFVA VRLCRRSRAASVGRCSVPEGPF PGHLVDVSDTRTLSQRYKYEVEF LTRGSGTNEFKFLKSVIP/QASG RCE*WEEKSNFVNGFGFN
7561	37929	A	7615	1	764	TRPGAHGASLTDLANLSEGVSL AERGSFGAMDDPFKNKALLFS NNTQELHPDPFQTEDPFKSDPF KGADPFKGDPFQNDPFAEQQT STDPFGGDPFKESDPFRGSATD DFFKKQTKNDPFTSDPFTKNPS LPSKLDPFESSDPFSSSVSSKGS DPFGTLDPFSGSFNSAEGFAD FSQMS/KGKSTPVSQLGSA DFPE APDPFQPLGADSGDPFQSKKGF GDPFSGKDPFVPSSAAKPSKAS ASGFADFTSVS

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7562	37930	A	7616	1	817	MGFCHVGQASLKLLASDPFGT LDPFGSGSFNSAEGFADFSQMS KTDPQVRSELLK\GTAARLVTR LDPLVSGPH\TR*PELTVALVPD SCRASPDAGSVVGAHL*GLGTT GAADGGTP\NSNRSFVLGVIIIV WSMCQLYLVP PPPSGPFTSSLG GAGFSDDPFKSKQDTPALPPKK PAPPRPKPPS/GHRLPVPDGGGP GPPCSP/DPE*QMPWDPVWGA RGSPRPSCPGPRKCRMVVP RV IQHPSLLLPSLVGRRSQPQIWRS HPMPAAPP S
7563	37931	A	7617	3	1039	GSLMFQQVPMVEIDGMKLVQT RAILNYIASKYNLYGKDIKERA LYAMTHDDE\AELRTPAAACKL *SECQFRTRVDAVRTMMIP/AFT QVLKSHRQDYL VGNKLSWADI HLVELFY YVEELDSSLISSFPLL KVKLLASSVKPVPLPSALRWPA HAVAQNI VTSWLTGGRFIELKT VQILDRLELEKPCIDAEDECNT EWSTEFTLLKAWDEYLKAWFA LHLEAMFQPSDSGKSFIFNMS VGYNLEGQPLNPKNYPSQGV RVLKSHRQDYL VGNKLSWADI HLVELFY YVEELDSSLISSFPLL KPHTHVDNTKKGSHPHMCAYT DYVNNPNDRMPQREITFVS
7564	37932	A	7618	2	698	NQKTVTMAGKPKLHYFN GRGR MEPIRWLLAAAGVEFE EKFIGS AEDLGKLRNDGSLMFQQVPMV EIDGMKLVQTRAILNYIASKYN LYGKDIKERALIDMYTEGMAD LNEMILLPLCPAE EKDAKIALI KEKISRYFPAFEKV LQSHGQD YLVGNKLSRADISL\VELLYYV EELDSSLIS\NFP\LLKALKTQNP ATLPHG*RSFLQPGSPRKPPAD AKALEEARKIFRF
7565	37933	A	7619	102	825	RNLQETA IMAEKPKLHYFNAR GRME\PPRWLLAAAGVEFE EK IKSAEDLDKLRNDGYLMFQQV PMVEIDGMKLVQTKAILNLHLP ANYNLLMGKDIKGREP*FDYVF *EGFSQILGLN*SSFLPVCAPPE\N KDAQALPLIQE KTKNRYFP AFE KVLKSHG\QDYL VGPTSLSRGW TFIWWELLYYVEGA WTPRLISS FPLLKALKTRISNLPTVKKFLQP GSPRKPPMDEKSLEEARKIFRF

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7566	37934	A	7620	2	1256	CHCGPP/VKVEAYGSQVLKGVLAQVQLTVGPGVGRTHPVVIFPVPECIIGIDMLSSRQNPHTGSLTGRVWTIMVRKAKWKPLELPLPRKIVNQKQYHIPEGIVEISATIKDLKDAGVVIPTTSPFNSPIWPVQKTDGSRMTVGYCKLNQVVTPIAAAVPDVVSLLAQINTPPGTWYAAIDLANDFFPIPVHKAHQKQFAFRWQGRQYTFTVLPQGRWEINMTKIQGPSTSVKFLGVQWCGACQDIPSKVKDKLLHLVPPTTKK/EAQCLSGFRREHIPHLPIYRVSRKAANFEWSPEQEALQQVQAAVQAAWPLGPYDPADPMVLEVSVADRDADWSCWQASI/GHKVGHAQQHSIIKWKWYIRDWARADPEGTTKGQGQRRWWQLAERQDSRDREAAIGERQETAVGKTARDGEAVCD
7567	37935	A	7621	1	518	MTVDYCKLNQVVIPIAAAVSDVVSLLAQINTSPGTWYAAIDLANAFFSIPVHKAQQKQFAFSWQGQQYTFTVLPQWYINSPALCHNLIRRDLDCFSLPLDITLVHYIDDI MLIGSTIKWVVHSS/DSIIKWKWYVHDWARAGPEGTTNGLAG*S GTCKKHEWKTGDKGIRGRG
7568	37936	A	7622	1	696	
7569	37937	B	7623	1	1014	
7570	37938	B	7624	1	837	

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7571	37939	A	7625	1	2592	MVRKAKWKPLQLPLPRKIVNQ KQHRIPGGTVEISAITKDLKDA GVVIPTTSPFNSPIWSVQKTDGC WRMTVDYCKLTQVMTPIAAV VPDVVSLKQINTYPGTCK\FLG VQWCGACRDI/PSKVKDKLLHL APPTTKKEAQHLVGLFGFWRE HIPHLGVLLQPMYQVTRKAASF EWGLEQEKALQQVQAAVQAA LPFGPYDSADPTVLEMSVADRV AVWSLWQAPIGESQWRPLGLW SKALPFSADNYS PFERRLLACY WALMETEGLTMGHQVTMQPE LPIMNWVLS DPSRHKVGHAQQ HSIIKLK WYICDQARA VPEGTC\ *LNKEVAQMP/MGTTRKWTAA ALQSLSGISLKDSGEGKSSQWT ELQAVHLVVHFAWKEKWPGT WKKHDWKTGDNEIWGRGIWM DCSEWSKTVKIFVSHAHEPSGH GGRDGGYAWAQEHELSFTKAD LATGIVECPICQQQRPTLSPRYG TIPQQQT FILTGINTYSIYGFAYP AHNASAKITIRGLTECLIH HGI PHS/IVSD*GTHFTAKDV\ETRIH RPRNQGV E VEVAPLTITRSDTL AKFLLPVPTTFRSANLEVLLLE GGTLPPGDPTTIPLNWKLRLPR GHFGLPLPLSQAKKGVSVLA GVTDLDYQDEF SLLLHN RVTA AFPSLLHSSFAYLDNMIEKANK CHVEGV D HVSDPAQRRECDRH
7572	37940	A	7626	20	238	
7573	37941	A	7627	3	229	
7574	37942	A	7628	1086	1369	ETGMLPLRLLPFLSDFAGPLH TSIMPTRRFCSKSPT*HTLATAL SQGLS*GT*NEASLTKEKVGKN RCRYSPSYPPSGIREGKAQLCFY THWK

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7575	37943	A	7629	1	1805	MSGRSRGRKSSRAKNRGKGRA KARVRPAPDDAPRDPDPSQYQS LGEDTQAAQVQAGAGWGGLE AAASAQLRLGEEAACRLPLDC GLALRARAAGDHGQAAARPGP GKAASLSERLAADSVFVG TAG TVGRPKNAPRVGNRRGPAGKK APETCSTAGRGPQVIAGGRQKK GAAGENTSVSAGEEKKEERDA GSGPPATEGSM DLE NVQLKLE NMNAQADRAYLRLSRKFGQLR LQHLERRNHLIQNIPGFSGQAF *NHVLLASFLNSQEKEVLSYLN SLEVEELGLARLG YKIKFYFDR NPYFQNKVLIKEYGCGPSGQVV SRSTPIQWLP GHDLQSL SQGNP ENNRSFFGWFSNHSSIESDKIVE INEELWPNPLQFYLLSEGARVE KGKEKEGRQGPGKQPMETTQP GPLSFVWVAVSPSWLPGQQGP QELPVDRGPLPVHETH TYPPQL SRNPTGCQTDGRAGLPVTPCDK KALPCAQCFVSHLLYCMGLQP RQKEKINPEVSSITNVAPKDME KVHAGALDKPMCGRQGKESQ GATHHATPSAISAPSHPLGSSE TLDIDGLAHFLEHSQINPSLLSR VLIQRQHLRHVAVTNG
7576	37944	C	7630	66	206	

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7577	37945	A	7631	3	1643	VQASQAEADQQQTCLKQLQS\ QLSRL*KQAIELREAVEQHKVK NNDLREKNWKAMEALATVAEQ \ACKEKLH SWTQ\AKEES/ERNQ LCLIEAQTMEALLALLP\ELSVL AQQN\YTE\WLQDLKEKGPTL\ KHPPAPAEPSFGTWAFQV*GEA E\ETQSTICRAEF\DQYRSILGGD GRALLRDLQKSVEEEEQV\WR AKVGAAEEELQKSRVTVKHLE EIVEKLKGELES\SD\QVREHTL HLEAELEKHMAAASAECQNYA LAEVAG\LRQLLLE\SQSQLRLPP KNRNPQKTEPMSFALGQASS*V KLKSHVED\GDIAGAPA\SSPEA APQPSRDPRSA*RTQLELDQKPI PWRMRQTTSRQKLHGSPFEA SDLRACSVYKEGFWEKLPHSA APPRSFFRNRREAFTA*RRDLEK RGRSLTSD\LGRARPRRLQELSE RRTQEQLGKGRRTRVKKLQE\Q LAEKAEDGSS\SKEGTSVLSFLFG KKKLLFQLYQNALTHSFTIKPT NLHSVYPGPNFVLREKAHEET SLFRRPQEVRTFPGGPILLNGTC
7578	37946	A	7632	3	247	
7579	37947	A	7633	3	389	GQEFSPKVY/FVNQTMGN/SCG PIGLFNAVANNQDKLGFEY\GP LLNQFLF*NR*KCPPKDRAKCF ER\NEAIRAAH\DAVDKEG\QCR VDDQGEFPFLFCLQNVDGPPSM NLDG\RMPFPRGPMAPSFRRTPT

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7580	37948	A	7634	1506	3135	RGLGGGLAEQELQPWSPERSPV HNN/RM/QEKSLKDLMEKTM AQELRDECTSLSSRFQLEEKV SVMEDEINEMKQEEKVREKRIK RNEQSLQEIWVYVVRPNLHLIG VPESDRENGTKLENTLQDIIQEN FPNLARQANIQEIQRMPQRYS SRRATPRHIVRFTKVEMKEKM LRAAREKEIQTTIREYYKHLYT NKLENLEEMDKFLDTYSLPRLN QEEVESLKRPTGSEIGAINSLP TKKSPGPDGFTAIFYQRYKKEL VPFLLKLFQSTEKERILPNSFYE ASIIIPKGRDITTKENFRPISL MNINAKILNKILANQIQQHIEKL IHHDQVGFIPGMQGWFNIRKSI NVIQHINRTNEKNHMIISIDAEK AFDKIQPFMLKTLNKLIGDGT YLKIVRAIYDKLTANIILNGQKL EAFPLKTGTRQGCPLSPLLFNIV LEVLAIRAIRQEKEIKGIQLGKEQ VKLSLFADDMIVYLENPIVSAQ NLLKLISNFSKVSGYKINVQKS QAFLYTNNRQTESQIMSELPFTI
7581	37949	B	7635	1	594	
7582	37950	A	7636	434	744	TLACLARLGKFSWIISCRVFSNL VPFSPSLSGTPIRRRFGLNVRT ATRILRFSRDLKKRRITRLYP TGPSEGPTPTESR*LLAQQSEIKLQ GGSEAGGGAPA
7583	37951	A	7637	1	1077	
7584	37952	A	7638	1	348	
7585	37953	A	7639	1	831	
7586	37954	A	7640	275	457	LIAYQPK*AQDYMDSQLNSTRG TKKSC*GRL*GSGVIHIGSMPVP TRTAGPLPFFAGPCR
7587	37955	A	7641	341	504	ILRFSRDLKKRRITRLYP TGPSEGPTPTESR*LLAQQSEIKLQGGN EAGGGAPA
7588	37956	B	7642	1	627	
7589	37957	A	7643	121	375	DGQQIALHRLALRELQQA VHAGLPQQA KILFDGGSEIGIKIH*L RCAHCPLSSRETCRASCINESAT RGERPFAYWAPGWFFFHQ
7590	37958	A	7644	3	479	
7591	37959	A	7645	382	642	
7592	37960	A	7646	273	1464	

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7593	37961	A	7647	76	1763	IFGITRFLPFIYQKIHIFSKEQLPD LHSHFSDLNLEAHMYASQWFL TLFTAKFPLCMVFHIDLLCEG LNIIHFVALALLKTSKEDLLQA DFEGALKFFRVQLPKRYRAEEN ARRLMEQACNIKVG VYTGTTEL Q*DFSLDSLVSWS DSSCCCGK ASWQDDGRNLHYGSL*RPCFQ PAAR*RLPH*SGGHQQAQVYG TN\KKLKKYEKEYQTMRESQL QQEDPMDRYKFVYL*VTPAVA FILGIFIRS*EKERGKRKWLSTF KNETKRKNGK VLF*LCMSYPQ RLLAGELFQD*HKDVS NPLSV ENVKNTNSLGRKNKNHK\REN RRLQEASMRLEQENDDLAHEL VTSKIALRNDLDQAEDKADVL NKELLLTKQRLVETEEEEKRKQE EETAQLKEVFRKQLEKA EYEIK KTTAIIAEYKQICSQLSTRLEKQ QAASKEELEVVGKMMACKH CSDIFSKEGALKLAATGREDQG IETDDEKDSLKKQLREMELELA QTKLQLVEAKCKIQELEHQRG ALMNEIQAAKNSWFSKTLNSIK TATGTQPLQPAPVTQPPKEST
7594	37962	B	7648	1	618	

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7595	37963	A	7649	1	2375	MAGAPPPASLPPCSLISDCCAIN QRDSVGVPRPSKPGAGYNLVVR RFLSLLEKRSIPVGVTRFSRCRP SPLSLTRKGNSLTPCASRIINMH FQAFWLCLGLLFISINAEFMDD DVETEDFEENSEEIDVNESELSS EIKYKTPQPIGEVYFAETFDSGR LAGWVLSKAKKDDMDEEISY DGRWEIEELKENQVPGDRGLV LKSRAKHHAISAVLAKPFIFAD KPLIVQYEVNFQDGDICGGAYI KLLADTDDLILENFYDKTSYIIM FGPDKCGEDYKLHFIFRHKHPK TGVFEEKHAKPPDVLKKFFTD RKTHLYTLVMNPDDTFEVLVD QTVVNKGSLLDVVPIKPPKEI EDPNDKKPEEWDERAKIPDPSA VKPEDCALGLELWSMTSDIYFD NFIICSEKEVADHWAADGWRW KIMIANANKKKHKDTEYKKTDI CIPQTKGVLEQEEKEEKALEK PMDLEEEKQNDGEMLEKEEE SEPEEKSEEEIEIEGQEESENQSN KSGSEDEALAEQPREGPGVPGP IPPKRPSRPIPEPRAAKRLPTQE LRGESYTMSASGTARGPSPKER LGLTTKTGEKEVAQGFCREPL RRPPNAQARDRSSRAPATHRKE LKPEREHISCSRSHIRYQEWVSL RDTVHRNLVLDTKRHPALILVE YKERTSSPATEQSCMENDFDEL REEGFRRSVITNFSELKEDVQT
7596	37964	A	7650	914	2786	
7597	37965	B	7651	1	2369	
7598	37966	A	7652	333	752	MSYVSRYGCGGRKNVATVSKG WAGSLAWPGGFPRKVKGGGS WRPSGGV/DVAAPVRARLALLL SGPIASESPLTTNPHSHSARRPR TYI/GHAPALRVTN/PESFSYWG TRGPSATMACDGLTRTGHSSPS RARSPLLCARSL
7599	37967	A	7653	1	177	RPLPSRPHAAPPGHHTISSGPCG HRKFSPKAGDSNTPRTRSRPRV SCALPPDVRGSWLS*KWNQIW YHTLPQPQENTPKSQENKPKSK PQPTQR*TRGPWPSSRCRVRSG /THRRPGLFLS*KQ/PSESIGHSR ALSAFTPAEMISTLPPPTSKSPL AARAAPPNG*SPKAGDSNTPR TRSRPRVSCALPPDVRGSWLS

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7600	37968	A	7654	1	1430	MQDTCSEIISPADFPTFSSSLKIR FSTDSPSQIFKKHCICQIVLILLP KNSYTRRLLVSNQMYLESFEH QCRKTHILCKRTAGSGPFCSCPT GQPRHNSSASKCPASERGLCLK/ PKSKREKREPGPVAPAPLHAAP SSPGLGAPQLR*PGRTRSFGRD HVGSPGPPRAGPRLFAPRPVLS RCSANPSGSPHTQSPKQSSTGQI SGRADQVCGCWIRKRGVPGAA RGSPGCARTCHSRGHPHAAPFP QCNSLAPSAPAGLWRTQNAGP SG/HAQPSCPPPVL*PPHPHP*G LSFSSCSRSWVPNTTP/EPREGE GQVPGRRRAASAPGASFAPGT/P RAPQPLPHFPVAQSPAAVAA SSECKREAARRSPGASALHLPP KSARPRQAPCPTLTDGGHIFPAS AARP*HKGHQTAEGKNPGRAD TSTSPFATFPFISGGEEKSRSPVL PERTRQREEAPGPPSSPLRGLW LTFWFVFL
7601	37969	A	7655	1	609	
7602	37970	A	7656	3	649	AKD/ELHIVEQGHDIRGRSIIK/ LATLKMS/VQPTFS/LGGFEIQPT VV*GLKCVSGPCHISGQHLVA/ VEEDAEESEEEEEENVKLLSISER RSAPGVVSMVPQKKVK\LAAD EDDDDDDEDDDEDDDDDDDFD DEEAEEKAPVKKSIRDTPAKNA QKSNQNGK\DSNPYSHPRSQG\ QDPFRKQEK\PKTPKGPSSVE DIKAKMQASIGKKRIEPVLGTY
7603	37971	A	7657	1	1013	PWCDSVLRGCSLEQSFISVRL SYLSACRHPMEDSMDMDMSPL RPQNYLFGCELKADKDYHFKV DNDENEHQLSLRTVSLGAGAK DELHIVEAEAMNYEGSPIKVT\ ATLKMSVQPTVSLGG\FEITPPV V\RLKCGSGPVHISGQHLVA\ EEDAEESEEEEEEDVK\LLSISGK RSAP\GGG\SKVPQKSKTCML MKDDDD\DEED\DEDD\DDD DF\DEE\AEKAPSERNLRYRDT PS/AKNAQKSNQNGK\D\SKPSS TPR\SKGTRIPSKKQEKTPKTPK\ GPSSVEDIKAKMQASIEK\GGSL PKVETKFINYVKN\CSRMT\DQE AI\QDLW\QWRKSL

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7604	37972	A	7658	9	271	GRVCKALWHSWHTARVLCIN STTTITASCNP/RHTARRSLTTPT *MCRLNWTKNLLFNPGVPVL VMSLLFIASVFMLHIWGKYTRS
7605	37973	C	7659	189	500	
7606	37974	A	7660	5	291	ATPSPSPPG/VPT*RPELLGPRR ERLLGPEGS/PGGGALPGVPPSR FVRTASSTLFLPPSPRAPFPSSIP LVSPPRHCARSRETWPRTLRI SAP
7607	37975	A	7661	1	431	LALQFSFLQNRQGLNLLIAEKG RLCIFLNEECCFYLNQSGLVYD NIKKLKDRVQKLANQANNYAE PPWALS\NWMSWVLPILSPLIPV FLLLLFGPCVFCLVSQFIQNRQ AIANNI*QMLLLTTPQYQPLPQ NLSSVESLPL
7608	37976	B	7662	41	1547	
7609	37977	B	7663	74	298	
7610	37978	A	7664	3	647	ELWTRGPRKRQNGSSKPLWLL YGESGAQKSVVEVTKPRLLWP QWQHRARRPCLQQAPCSSRPH APAS\LPPSSPTARDTKHRAQV KTDSGARRRDGRVLGVLEVS RSIADGQYKRCG\VTSPD\IRR C\QLTPQ*PGSILLACDGLF\KVF TPEEAVNFIL\SCLEDEKIQTREG KSAADVR\YEAA\CNMLANKA VAAGARPDNVTV\MVVVR\IGH
7611	37979	B	7665	1	1302	
7612	37980	A	7666	3	1268	SCARVAAWGGKLRRLAVSRQ AVRSPGLAAA VAGAALAGAG AAWHHSRVSAARDGSFTVSA QKNVEHGIIYIGKPSLRKQRFM QFSSLEHEGEYYMTPRD\FLFSV MFEQMERK\IQSRS*QKRFIEDT LSGIPTAGCGSSFFQRPWAIKGL ISYNRVIFFFALQSSLNPFGFH VAFKMLDTDGNEMIEKK/ENFL SCRRS*VNKMT*LTVKTNETWI SGSNK*KNLKL/DTTLQMRFFG KRGPRKLHYKEFRF/WENLQT EIQGN/VEFLQFSKGLSFMKRRL TLQSGYFFSTNTENKDIYWKNV REKLSAGESISLDEVKAFCHCT RQIGTLCY/SAMQMFTLAHRPV RLAEFKRAVKVATGQELSNNIL DTVFKIFDLGDDECLSHEEFLG VLKNRMHRGLVGTSTSEYTRIL EVCEERKH

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7613	37981	A	7667	2	342	QNRGPGRIT*DFLPNS/VGEKILS FCNCSLGSIGALGPACCRVLSEL SEEQVFHVNYLDVEELSLSLRLC QCLVELSFQLATAYHGSATTRE AARGEAACRAHLMFWCLCIWQ FCRL
7614	37982	A	7668	1	1166	VGCVLGRVEAAVTVPAGTEE GMSEEEQSGSTTTCGLPSIEQ MLAANPGKTPISLLQEYGRIG KTPVYDLLKAEGQAHQPNFTF RVTVGDTSTGQGPSKKAACH KAAEVALKHLKGGSMLEPALE DSSSFPLDSSLPEDIPVFTAAA AATPVPSVVLTRSPAMELQPPV SPQQSECNPVGALQELVVQKG WRLPEYTVTQESGPAHRKEFT MTCRVERFIEIGSGTSKKLAKR NAAKMLLRVHTVPLDARDG NEVEPDDDHFSIGVGFRLLDVL QNRGPGCTWDSLRSVGEKILS LRCSLGSIGALGPACCRVLSE LSEEQAFHVSYLDIEELSLSLGLC QCLVELSTQPATVCHGSATTRE AARGEAAARRALQYLKIMAGSK
7615	37983	A	7669	2	328	
7616	37984	A	7670	181	1271	LEASLDQH*ASVHSFRSHIHVIS RTHRK\SQRDPSELDAEHAQKV LEMEHTQQMKLKERQKFEEA FQQDMEQQYLSTGYLQIAERR GEWGLGLLVWGLTGCAGCHD SSWGLVRWYKCYSFKFVDEPC LQFERNCKPIGSMSSMEVNVD MLEQMDLMDISDQEALDVFLN SGGEENTVLSPALGRVDKLALA EPGQYRCHSPPKLQQWCGSVM NSSQRFMDLHSGNFEIHLSTLL VVKDWRLQGGADSPAGLTGNS SLFVRQAFRGVPAMGKAMGSS QVLQAPGPESSTCQNEITLQVP NPSELRAKPPSSSTCTDSATRD ISEGGESPVVQSDEEEVQVDTA LATSHTDREATPDGGEDSDS

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7617	37985	A	7671	60	965	Q R G V G G V G P R G R Q R Q Q P E A * G E E T V A A A A M L E T L R E R L L S V Q Q D F T S G L K T L S D K S R E A K V K S K P R T V P F L P K Y S A G L E L L S R Y E D T W A A L H R R A K D C A S A G E L V D S E V V M L S A H W E K K K T S L V E L Q E Q L Q Q L P A L I A D L E S M T A N L T H L E A S F E E V E N N L L H L E D L C G Q C E L K R C K H M Q S Q Q L E N Y K K N K R K E L E T F K A E L D A E H A Q K V L E M E H T Q Q M K L K E R Q K F F E E A F Q Q D M E Q Y L S T G Y L Q I A E R R E P I G S M S S M E V N V D M L E Q M D L M D I S D Q E A L D G L P E L W R R R E H C A V P
7618	37986	A	7672	1	124	
7619	37987	A	7673	3416	3920	C C L I K N D I K E K L H Y S D C R L N V G Q P C I L P R N A F E F D L L I F Y L G N L H F Y I S E I G L L G Y C T F F F F F F E M E S C S L T Q A G V Q * C N L G P L Q P L P P G L E * F / S C L S L P S S W D Y R H V P P H W L I F V F L V E M G F C Y V G Q A G L E F L T S G D P P T S A S Q S A R I T G V S H H A Q P G Y C I L I L G F C
7620	37988	A	7674	1	387	

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7621	37989	A	7675	1	1827	MKKVGGRVFWAKERASAEAL RHELAGLLKKCKGSAADADQG GLGQGCRRHSKRWEGFTRGAS RAARLGNEEQDAASAGPGPNG CGHLGAEEPSAAAASGMDQCVT VERELEKVLHKFSGYGQLCER GLEELIDYTGGLKHEILQSHETC LSVVLLSLPMVMAGSGNLKVL QLCRFLHMKTTGGEMNYGFHLA HHM\ALGTSIFGEEGRYSL\STS NSSIAALLCALYPHPGFTALD NRYHLQ\ALR\HLYVL\AAEPRA FLVPVGCQTQTRPCY\ALLGSLP YKGTQWY\EQTKED\LMAPTLL PELHLLKQIKVKGPYRWELLID LSKGTQHLKSILSK\DGVLVYVK LRAGQLSYKEDPMGWQSLLAQ TVANRNSEARAFKPTISAFTSD PALLSFAEYFCKPTVNMGQKQ E\ILD\FS\SVLYECVYPRET\PE ML\PAYIAMDQLIRRLGEREMS ETSELW\QIKLVLEFFSSRSHQE RLQNPPLKRGALLMELGNSPPF CKCT\INNTL\DTW\LQVRGDIC VNAYLTGQPL\EESQL\ADMLACF LVFHFVPSSTALPTL*D*KGS\TS FA\ELLFKFKASLKMPSAELCLR LAPLPSLEIPQPNGDVTVSGGEP
7622	37990	B	7676	374	515	
7623	37991	A	7677	102	1237	HSHRAACPDNRLVPGASR*HY LHRCRSRHSSS/NIGKNI/HSLRA GAVNNQSRPQSHSSGEFSLLHD HEAWSSSGSSPIQYLKRQTRSSP VLQHKISETLESRRHHKIKTGSPG SEVVTLQQFLEESNKLTSVQIKS SSQENLLDEVMS\LSVSSDFLG KDKPVSCGLARSVSGKTPGDFY DRRTTKPEFLRPGPRKTEDTYFI SSAGKPTPGTQGKIKLVKESSL RQSKDSNPYATLPRASSVISTAE GTTRRTSIHDFLT\KDSRLPISVD SPPAAADSNTTAAASSEYHLHQ WSSHILDIPHTHTIGSCAQNDLAI DMPEPLYAQARNRSTGRSHFL NQTFATIRMPSDAFGMLAKDK HRTIYCGPFISAILPEYRIS

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7624	37992	A	7678	1256	1971	HNCALHADSTMRGKAPLFRPT YKLMEQLLLRIFRWISQKCQNV EVTICWF/CTCTYSGWVEAYP TRTEKPYKKGKNDPSC TKGQC NP LELVITNPLNPHWKKGERVT LGIDRARLDPRVNILVRGGEVY ERSPEPVFQTFYDELNVPVPEIP GKTRNLFLQLAECVAQPLNVT CYVCGGTVTGYQWPWKAREL VPVDPVPDEFLAQKNYPDNFW VLKPSITGQYCIAREGKKFTHP
7625	37993	A	7679	1	1710	
7626	37994	A	7680	1	561	
7627	37995	B	7681	1	642	
7628	37996	A	7682	2	611	
7629	37997	A	7683	1	1718	MLSIQSTHAEKELENFFQNTED WYFHTSHHLSSLRFFSARESN SMKLYEEAYMERYRDFLPATM WSAHTVDVPGQATWIKQKSE KDPVHLQKGKNGPSC TKGQC PLELVITNPLDPCWKKEERVTL GIDGAGLDPQVHILVRGEVYKH SPEPVFQTFDELNVPVPEIPGK TRNLFLQLA WHVAQCLNVTSC YVCGRTIIGDQWPQEAQELVPT DPVPDEFLAQKNHPDNFWVLK A\SIIGQYCIAREGKEFTHPIG*L SCRRQKLYNGTTKTIT/W/RGSS NHTERNPFKFPKLQTVWTHLG VP\RAWEQPPLGFLGYVRAWS LLTGLLDHWAGSCCLLGTIKPS FFPTAP*KQGKLLGFPVYASRE KRIIAIENWKDDEWPPERIIQY YGPVTWAQDGLWGYQTPIYVL NRIIRLQAALIEITDKISRALTIL AWQETQMRNAISQNRALDYL LAAEGGVYGFNL TNCLLHVD DQGQVVEDIVRDRTKLAHVPV QVWHEFDPGAMFGK WFPALG GFKTLIIGVLIVIGTCLLLPCLLP VLLQMIKSFIATLVHQNASAAQV
7630	37998	A	7684	3	406	TLISFIYPAQNPPELLNKLSQRKT TVLAMDQVPRVTIAQGYDALS SMANIAG/YLIVGGGVAGLASA GAAKSMGAIVRGFDTRAAALE QFKSLGAEPLEVDLKESGEGQG GYAKEMSKEFIEAEMKLFAQQ CKEVDI
7631	37999	A	7685	1	236	
7632	38000	A	7686	1	978	
7633	38001	C	7687	415	453	

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7634	38002	A	7688	3	408	
7635	38003	B	7689	1	2137	
7636	38004	A	7690	112	3688	GNWGARKLGTHINMANLLKTV ATGCSCPLLNNLGSCGLRVK KDFLRTFYTHQELWCKAPVKP GIPYKQLTVGVPKEIFQNEKRV ALSPAGVQNLVKQGFNVVVS GAGEASKFSDDHYRVAGAIIQ GAKEVLASDLVVKVRAPMVNP TLGVHEADLLKTSGLISFIYPA QNPELLNKLSQRKTTVLAMDQ VPRVTIAQGYDALSSMANIAGY KAVVLAANHFGFRFTGQITAA GKVPPAKILIVGGGVAGLAS
7637	38005	A	7691	2	288	EFPATIQSNRARGAKPGRRVDR GPQARCFDVGCGPRSPSNGLR NSEPSP*GR/CGRSPVSPALSSSR DVNLPCM LSSGTDGACSEVLV GTLYRPL
7638	38006	A	7692	54	522	RFHMSSLSASPPPRRLWTQMNT QCLVFSASHLPRCQEMLFQGT *EKPHSPRCFSPA KPRPAGAPA ASHKCR/CTP*PGPPSEPTV/PSD KAPLVGNAESQRVASPSGPPAP CSPV\GWPGTYKAIPASGT VAP TPLSAGTTDMTRLCPLSLEFL ND
7639	38007	A	7693	3	57	RAGAGRSERAVAEES*GGLSGS CGRHNPGQSR LQRRPSQDVELE DCCRG C*SGSLWLRTL RPKRPA PFGGFSVPASSAASIPTGSAVVQ PGPLPGPTGKSPVFAGSGPSSN PQPAFS\NMRTD GSKPGSA/SF APLTPPLEPPAGLRAPSSGV SPL LPATIQSNRARARSPGDA*AAP PRPGVLTSAVPLPRRV T/CLRNS RAFAPAVRTNAVTP*PGGVSGP SQRRAEAA
7640	38008	A	7694	3	237	
7641	38009	A	7695	114	186	

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7642	38010	A	7696	73	904	FGGFLANLSYQEALSDTQVAIV NILSSTSGLFTLILAAVFPSNSGD RFTLS*ELLAVILSIGGVGLVNL AGSEKPAGRDTVGSISLAGA MLYAVYIVMIKRKVDREDKLD IPMF\FGFAGLFNLLLLWPGFFL LHYTGFEDEFPNKVVLMMCIIN GLIGTVLSE\FLWLWGCFLTSSL IGTLALSLTIPLSIADMCMQKV QFSWLFFAGAI PVFFSFFIVTLL CHYNNWDPVMVGIRRI FAFICR KHRIQRPEDSEQCESLISMHSV SQEDGAS
7643	38011	A	7697	1	308	
7644	38012	A	7698	3	397	
7645	38013	B	7699	1	963	
7646	38014	A	7700	3	1433	KIRVTSKALELGKAQGQTGTD GSGRGWGRPNSSGKGEHFYYN ISE*VGGGASRSGAGPRRWRRG PRMLQITNASLGLRFRRQLLYW FL*GPSTLRGVESGGGLEVLW GSRDPAGRMKVS NVSCQASVS RMHAAFGGTFK*APAPTPAHPF RAPQLICLAQVWAATGRRVAR VGMLSL*EGPGELVAGESGCA AVMQHLRAGPFRALLFTSNLD MDFRVSLGWCMTSDFLTRPL SLLSLQEEERMVYVAFSEFFFD SAMESYFRAGALQLLLVGDKV CHGLFVGWAREGL*QSSLPHC AGGGRDRATCTPVRPRRGAAIK PSGTTISVTASVTIALVPPDQPE VQLSSMTMVRVPEWGLLAGG QGKMGCGLLSR*AGALPCTSVI GGQSHLSTGMGWAGFVRS*PS PSPRKA/RGVRMEEER\GVNWA GPD*ATNHAVSGGRMGKEGGP SPLSIAPQCHRPADVRASTAPT
7647	38015	A	7701	2	391	MALRGKALRTTDLRRFRIYSN HSATWKS LA/L*IPLQAPLK\TM LPELG*MPQCSNERT\WRG\VQ DPHYPEGIKLCAMKVVTNPCGI PSPIGA*SPTFAKGLREVIEKNR PADVRAS\TAPTPSHSSCLSP
7648	38016	A	7702	1	189	
7649	38017	A	7703	202	455	KCDILPTALDSIIH/SSHRVHLA HSPHSLQ**HPHPLAQPSQQDRP SVPL**MSLADPESHLSHSHF HL*PACRV*AYDLLPL
7650	38018	A	7704	313	378	

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7651	38019	A	7705	126	1246	PNGLRPPCPSPASETPGNAPVCD PGSSSQGAQGLNAAWWAPGM A/ASRSLHSLHPVR/RACALPAQ SLLGPLRSFRCHLSDPVVRTGAP PGQGSWQYKVLVHAQERELTQ LREKLREGRDASRLNEHLQAL LTPDEPKSQGQDLQEQLAEGC RLAQHLVQKLSPENDNDDDED VQVELAEKVQKSSAPREMOKA EEKEVPEDSQEECAITYSNSHGP YDSNQPHRKTITFEEDKVDST LIGSSSHVEWEDAV/HHYSRK* K***GRGRKRASVSQKPEETPS\ PRPEPPPRGSGEAERSVGSWDA SSRSLRRLHPLREPVTLPSPFR GRCGASAAIFGSCVPHGGSTRA GMMGSKEVGKGGDPGEETSPV ALFS
7652	38020	A	7706	3	5665	LLEKLRQRIHDKAVALERAIDE KFSALEEKEKELRQLRLAVRER DHDLERLRDVLSSNEATMQSM ESLLRAKGLEVEQLSTTCQNLQ WLKEEMETKFSRWQKEQESIQQ QLQTSLHDRNKEVEDLSATLLC KLGPGQSEIAEELCQRLQRKER MLQDLLSDRNKQVLEHEMEIQ GLLQSVSTREQESQAAAEKLVQ ALMERNSELQALRQYLGGGRDS LMSQAPISNQAEVTPTRGLGK QTDQGSMQIPSRDDST
7653	38021	B	7707	1	1098	
7654	38022	A	7708	193	5850	HCQRNTTGEHCEKCLDGYMIK S*DSLFGDVWN*LPIFASNFSA EL*K*GFVRDYHK*TFVCS/CLL NP*GPEFVGKKIKRKNHDAK YLN*YS/CFRCAPGYGNPLLI GSTCKKCDSCGNSDPNLFEDC DEVTGQCRNCLRNTPGKYCHIL SIKKCISRLFLFPTVCNCGGGP CELH*EQNFWFKNYFNSRHPLP QTDVSWCSAKTACL*HAFDL*F *RNVSPPGCDKCVWDLTDALR LAALSIEEGKSG

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7655	38023	A	7709	1	713	TPCFESPN/ETGTYFSTKAGYVL LN/ESSN/IGIEFEIAFKVRPRSSS GTLVHGHSVNGEYLVNVMKN GQVIVKVNNGIRDISTS\TPKQ SLCDGRWHRIT\VIDSNVVL DVDSEVN\HVVGPLGIQKPIDH REPVL\VGGVPRILY*HPRFCPP QNPFTG\CIR\HFVIDGPPQWSFQ VKAAPGQAGARKASNSLSQQP GHGQKHSCPKYKVPLRALEKE HKASPGGTVTLSTFGVGSFSSS
7656	38024	A	7710	3	322	DGVSHCRPGWSAVA*SQLTAT STSWVQMIACFTLPSSWDYRCT PPCLTNFCVCIFSRDRVWAMLA GWLKNS*PQAIRPPQPPKVLGI TGHEPRAPGQKILTFHILT
7657	38025	A	7711	2	480	YSPPECPCGKIEHSEDMETH VKT KHANLLDIPLED CDQPLYD CPMCGLIC TNYHILQE HVDLHL EEN\TFSKAWIESSVLVIYNWLT SFSKKKTERGD/PEESRQEIEEF QKLQRQYGLDNSGGYKQQQLR NMEIEVNRGRMPPEFHRKA DMMESLA
7658	38026	A	7712	187	468	
7659	38027	A	7713	1	1110	MHCIETGVERRILGLLLFRGSLA SVIRPGEVLDAHALVCQRGPK GKPSGAQCGSCWPLGRPKALT QLVPASFVCLACAFGAERLGDS ALRSSDLTHLLVNTMLSCNIC GETVTSEPDMAHLIVHMESEH CPFCKLSGVNYDEMCFHIEAH FEQNTLERNFERINTVQYGTSD NKKDNTLQCGMEVNSSILSGC ASNHPKNSAQNLTKDSTLKHE GFYSENLTESRKFLKSREKQSSL TEIKGSVYETTYSPPECPCGKI EEHSEDMETHVKT KHANLLDIP LEGMDRVQCSGDLQLAHQLQQ EEDRKRSESRQEIEEFQKLQR QYGLDNSGGYKQ\NNYEIWR* K*IGEECLHLNFIGEKLI
7660	38028	A	7714	2	303	
7661	38029	A	7715	97	233	RTVTCYHRNSRACHPQQITSCP *HRALPCLPLWSPKCPSRWPWF G
7662	38030	A	7716	229	359	MKWVYCSVTGMGKGQHRMP SKG*GWVQRYNRDGIPSPRVLE LF

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7663	38031	A	7717	1	1185	MSTIDDPRLQGRRMCLMLRGT PEQKALVIGGEACMWGEYVDN TNLVPRLWLCPPSTQDLANEGI REMTILHRHIPDRGKGVMRSCS FRTPRPFTLACGPEKSLMDPQS QSNSEGASSSLVVKLADTDRE ALRRMQQMAGHLGAFHPAPLP LGACGAYTTAILQHQAALLAA AQGPGLGPVAAVAAQMQHVA AFSLVAAPLLPAAAAANSPPGSG PGTLPGLPAPIGVNGFGPLTPQT NGQP\APTRSTITGSPLI/SGWSQ SRPILRIMKYAEQRIPTLNEYCV VCDEQHVFQNGSMLKIQPDTH QVWREDIPVNYMKELELVTKA GFRALLSAPWYLNRIYGPDW KDFYIVEPLSFEGTPEQKALVIG GEACMWGEYVDNTNLVPRLW AHRIQL
7664	38032	B	7718	1	1196	
7665	38033	B	7719	184	1689	
7666	38034	A	7720	228	407	
7667	38035	A	7721	1	725	MQRGALSPVLMLSAAPEPPRP PPGLSPPGSGPGSGSRHGSARPG PTPEPSGSLGAALDSSLRAAVA FKAEGQRCYREKKFREAIKGY HRALLQLKAA/LGGPP*RPARP RPPGPTSSPGPARLSEEQRRLVE STEVECYDSSPA\CLLQSELVNY ERVREYCLKVLEKQQGNFRPP YRAG\IAFYPLGDYARALRFLQ EAPSREPPDTNVLRYI\QLTQLK MNRCSLQREDSGAGSQTRDVI
7668	38036	A	7722	1	262	NGKEPGRYTFEDAQEHYKLM KSDSYPRFIRTSAYQELLQAKK KGRNIPFPCHKNCTPTLRASN LL*KEGKSLTSKRLTSLAQSY
7669	38037	A	7723	1	1392	

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7670	38038	A	7724	1	1544	MAQGNNGQTSNGVADESPN MLVYRKMEDVIARMQDEKNGI PIRTVKSFLSKIPSVFSGSDIVQ WLIKNLTIEDPVEALHLGLTMA AHGYFFPISDHVLTLDGTFY RFQTPYFWPSNCWEPENTDYA VYLCKRTMQNK\ARL\ELADYE AESWA/RGLQRAFAPKW\EFIF MQAGAAKVDKKRDKIERKIL DSQERAFWDVHRPVPVCVNTT EVDIKSSRMNRNPHKTRKSVY GLQNDIRSHSPHTPTPETKPPT EDELQQQIKYWQIQLDHRHLK MSKVADSLLSYTEQYLEYDPFL LPPDPSNPWLSDDTTFWLEVA SKEPSQQRVKRWGFWAWDEGI GKTQLGRRNSFLKIF*EFRISGS GNFKVLGWASGRTLKKRPF\KE VPSRVQEIWQEFAPGAPSAINL DSKSYDKTTQNVKEPGRYTFE DAQEHYKLMKSDSYPRFIRSS AYQELLQAKKKGKSLTSKRLTS LAQSYLNGSSCSMNADWSHCT HFVAQCCDLEQRTLEQDVA
7671	38039	C	7725	81	439	
7672	38040	A	7726	531	686	GWQWLHRPPGATQHCGGNLP AEESLPARATN*ARPAATHRGG RGQDLPPGG
7673	38041	A	7727	93	428	LHCQVHLSLIDLPLL\SFLLLLF *D*VSLLLPRLECSGAISSHCSL H/LGPGSRDSPASAS*VAGITGT CHHVQLIFVFLLETGFHRVSQD GLDLL/NLVIRLPRPPKVLGLQA
7674	38042	B	7728	99	425	
7675	38043	A	7729	35	861	
7676	38044	B	7730	141	586	
7677	38045	A	7731	116	926	AEIVAQEVSEEGGKSRKGPQFG KSQYQELIRRSECGLNRGEGESI KANMQQVIYIFPITLAEVVL RP HSYPSKKTGLTLAAASIA YISR *EWLYFETGTWVYPVFAKLSLL GLAAFFSLSYVFIAS IYLLGEKL NHWKWVSVRNSTLILYIRMAK SHTQSPTSLAHMPFCSIKIEMAE VPSSAQSMNWCEKLLVFPPR*C CFLRPRDSVSPPVFAWFILMHF NTRLFQEAFFGQPQILQRWRLE SVGICFQWPDWKS PAKHQLVK

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7678	38046	A	7732	32	394	GKAVLPIMRETLGDFHYQIHCC PDLPGTDLGHPGSPDLGEVKFL SQT*EVTSLQVSGKVWR*WTAI CTHTSQSLSISLL\FCLRSASATS LTLSHCVNVVKGLLDFKKRRG HSIGGAPEQR
7679	38047	A	7733	1	765	
7680	38048	A	7734	3	1295	QARVSQELKKAARKRTVSISEGP DTLGDGMRRERRETLALAPEPEP LEKEACEKWKRPFRSASATSLT LSHCVDVVKALLDFKKRRGHSI GGAPEQRYQIIPVCVAARLPTR AQDVLDAHLSEVQCCSFPGNS SLLATGGADRLIHLWNVVGSR LEANQTLEGAGGSITSVDPDF G/SNQVLAATYNQAAQLWKVG EAQSKETLSGHKDKVTAAKFK LTRHQAVTGSRDRTVKEWDL GRAYFSR\TIQCSFSYCNDVVCG DHIIISGHNDQKIRFWDSRGPHC TQVIPVQGRVTSLSLSDQLHL LSCSRDNTLKVIDLRVSN\TARG FRADGFKCGSDWTKAVFSPDR SYALATLPVMGPF*IWECGTPG KNWKKQELTGTPIALPVQTPW PWCLLPGPSPHGETWTQGRKGC AFGSRAHDLPALGWRLPEA
7681	38049	A	7735	123	463	DVEVGLISQLQDCELGCGIPLK VFPAVFRLPLSLHTFLPLSRT LASGGDGATSASCCRCPGAVSI S*L*QTVASP*VLVVFVHSRKET GKTARAIRDMCLEKDTLGLFLR
7682	38050	A	7736	1	489	
7683	38051	A	7737	1	423	
7684	38052	B	7738	1	900	
7685	38053	A	7739	1	1824	
7686	38054	B	7740	400	969	
7687	38055	A	7741	3	4781	EISATQIIVCTPEKWDIITRKGGE RTYTQLVRLIILDEIHLHDDR PVLEALVARAIRNIEMTQEDVR LIGLSATLPNYEDVATFLRVDP AKVLFYFDNSFRPVPLEQTYVG ITEKKAIKRFQIMNEIVYEKIME HAGK\NQVLVVFVHSRKETGKT ARAIRDMCLEKDTLGLFLREGS ASTEVLRTAEQCKNL*LKDLL PYGFAIHHAGMTRVDRTLVED LFA\DKHIQVLVSTATLAWGVN LP*HTALFK
7688	38056	A	7742	2	518	

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7689	38057	A	7743	18	1108	CSGIPRFRDSQSTRAACFFPAWT RMRAPSMDRAAVARVGAVAS ASVCALVAGVVLAQYIFTLKR KTGRKTKIEMMPEFQKSSVRIK NPTRVEEHCGLIKGGAACLQIIT DFDMTLRSFSYKGKRCPTCHNI IDNCK\RLQMNVEKSYCQLKEK YYAIEVDPVLTVEEKYPYMVE WYTKSHGLLVQQALPKAKLKE IVAESDVMLKEGYENFFDKLQ QHSIPVFIFSAGIGDVLEEVIQQA GVYHPNVKVVS NFMD FDETGV LKGFGELI\HVFKNKHDGALRN TEYFQSN*KTNSNIILG\DSQG DLRMADGVANVEHILKIGYLN DRSGMSF*EKYMDSYDIVL\VQ DESLEVANSILQKIL
7690	38058	A	7744	105	548	PQTPRLKQSYHVS LPS SWDHP VAGKRA*HAH*FYIMAQLFLPA ASPGTPASQQPLWTQCLPISW RPWSAHSFLKPSSPGPGTPASQ QGLWTQLPRSFQRPWPKSSSR PGNGPGRAASRPRAQLRPLGG LSRFNDGHNFLAQ
7691	38059	A	7745	186	650	RCPGCPTTASARESREAESRGR GSSGASWGAVQWEEPQPRLL RGTDCCMIFWAPHGSSTWRRR CVHSRSTAADPVLTPSPA/STPS SNCSGSGTSLAALPLPLPQTLGP *QPGWKGTQPCLNTWGVSITS TGRWATPKIPGLTVPPENMDS MWG
7692	38060	C	7746	212	556	
7693	38061	A	7747	2	312	PDLK*STCLGLPKCWDYRW/RA TMPGWENIFSSMNH TLNALTG AVTSTRDNS*LHRVSCISSPWCC CLSPCPCRV SAGTGRVPSCLCH SGAWNRLDQDINRNNSC
7694	38062	A	7748	2	366	FLHTKYLLFCGIKAPHKYFIRSI FFFFLRQS/LYSIAQGGVQWGN LGSLQPPSPGFKQLSCLSLPSSW NYRCAPPCPANFVFLVEMGFH WIKPG*SRN*PRDPPASASQSAG ITGVSHHAQP
7695	38063	A	7749	1	446	MPILFTTVSSALSGAQHIADAQ CDRKGHRTTIQGS RVNLVQPSV GPKVEETQCWGPGRGMPGAPE APRERRVRSGSRSGDPGVA/PR AASGVGGRYAITRGRASAAVP CRSGGARRGGAGGQAADCGPG H*KESES RGPEGPAEGSQPL

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7696	38064	A	7750	1	744	GGLIPRAQRESKRRSRGRARAA SGV/VWALCYHPRQSECCGTL* KWRSSPRRCWRTSG\DCGPGH* KESESRGPEGPAEGISASLKM* WFASGTCLSRCLTLRQRK*LKK IKIWIWK/SEK/PAEAT*SEGQPP F*GPRQTGAEGF*LEPPQPGMSL KLFKVILKG*DSRTKMGDQQPP RVHGRTHGPLQPLTPVKGGGS CPVKGPSPSGIWP*KPLL*CLAT L*WQEGTFSLSGLLGPCTPGAS VGHKIY
7697	38065	A	7751	316	650	SYNTHGITFHVPTANVLVVDL MCHLEKLAKYDDIKMKVQQA LEGPL\KGILDYTEQQVSSNFT SDTHSFTFDAGAGTAFNNHFFK LIF*YDNEFGYSNRVVELMFHP ASKG
7698	38066	A	7752	2	775	QARRARSRNSRGLSQSAARPLA AKTAWRTVAPPQPWAAAPR*R SSCPHSSCSATSPGPACQSSA HSPSPRLQAPPPPTSS\SGSSVPE AATAPLAASARRGTPRPRTGRP SWAGTRQGSWAGTQRPWVWA PAPAGPPRAAAAAAR*GRDKS QLTCPPRHSTPPGSAAGASRHR RRGLAGPAPSPPGCRAARPPWP SAAAALGLGGRGPD\VALHCEI HWPLEFQSLCCCLLTSRGGEAS CHPEFHLFMHDFLPGSF
7699	38067	A	7753	1	552	MQTLFTLLQPSQTGPQPQIVC CVYAESGARDSGQP/PSKVVPVS FCTPAATQRG*REPGCSHPAGD CSAPQQCS*PGQ/RIS/RGDKVL ASNTYLPGPGLPGGQGPPTW MKVETITQQTNTGTENRVFSL LYMTISKQYLSEEQGSWLSC INALQAFFSNAAIWLVTFELS RVLDGAEND
7700	38068	A	7754	2	538	LGKYITGDKVLASNTYLPGPPG LPGGQGPSPGPKGSPGFPRY A\GLLGQPGSRGSIGTHGTIS*S/ G/LPTKQRRGPVGPPTPERD GSKGERGAPGRGSPGPPGSFD FLLLMLADIRNDITELQEKVFG HRTSSAEFFLPQEFPSYPETM DLGSGDDHPRRTETRDLRAPRD
7701	38069	A	7755	146	373	

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7702	38070	A	7756	678	1582	CQGN SPLSGV WPSGDWEDKHS Q*CPVVCSPQNILSQT SRHNDR DYRLPRAETHSSSYAQYSTPSN LVVHPTATPSTVPSSPFTLQSDA YQPKKSF DANGASTLSKLPTPT SSVPAQKTERKESTSGDKPVSH SCTTPSTSSASATE/S/TTSAPPTS ASAGPCFSCSTARQYLPYFRDP NLLRTIAVLLCKATVAALINS*C GTYLKIK*SSYSSCDTSLTAVYN S*VSYCWTFQHNVSDFSSCSA PTQAQPSNQSPMSLTSDASSPR IICFSKE*GTPQTNTVPIQTFGFS TPPVSSQAKG
7703	38071	A	7757	1	1365	MHLIPATNCDTLVECCLPGL TRDLVCTAFTGFGTSYSPQENS HNHSALHSSNSHSSNPNNPSK TSDANILSQT SRHNDRDYRLPR AETHSSSTPVQHPIKPVVHPTAT PSTVPSSPFTLQSDHQPKKSFDA NGASTLSKLPTPTSSVPAQKTE RKVLQQLSKHNRKVMIRSALIT SIILDLLYIEKDLRYQKNIESTSG DKPVSHSCTTPSTSSASGLNPTS APPTSASAVPVSPVPQSPI/PSLT SGPKSS*TIA/PALQATLQLNNS NVDISKINEAQPSNQSPMSLTSD ASSPRSYVSPRISTPQTNTVPIKP LISTPPCFITAKG*LLQ*LSQGTS VHSQPHTAACNC*/PSSK/SHEP VSPRSLQRSSSRSPSPGSQFILL NSSNGIQMATVVPQEFFLARFH VFHLTPGTRRPPFQWKISLKHV SRDGPADSWQEEGRASRFTAE GRRH

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7704	38072	A	7758	2	1256	CHCGPP/VKVEAYGSQVLKGVLAQVQLTVGPVGPRTHPVVIFPVPECIIGIDMLSSRQNPHTGSLTGRVWTIMVRKAKWKPLELPLPRKIVNQKQYHIPEGIVEISATIKDLKDAGVVIPTTSPFNSPIWPVQKTDGSRMTVGYCKLNQVVTPIAAAVPDVVSLLAQINTPPGTWYAAIDLANDFFPIPVHKAHQKF AFRWQGRQYTFTVLPQGRWEI NMTKIQGPSTSVKFLGVQWCGACQDIPSKVKDKLLHLVPPTTKK/EAQCLSGFRREHIPHL\PIYRVSRKAANFEWSPEQEALQQVQAAVQAAWPLGPYDPADPMVLEVSVADRDADWSCWQASI/GHKVGHAQQHSIIKWKWYIRDWARADPEGTTKGQGQRRWWQLAERQDSRDREAAIGERQETAVGKTARDGEAVCD
7705	38073	B	7759	56	3476	
7706	38074	A	7760	3	591	DPADPMVLEVSEADRDA\VPIS ESQQRPLGFWSKALPSSANNYSFFKRQLLACYWVLVEIEHLMGHQVTMRPELPIINCVLSDPCSHKVGHAQQHSIIKWRWYIHDWAE GTSKLHEEVAQIPMVSTPSLPQPAPMASWEVPYDQLTEEEKT RAWFTDGSARHAGATQKWTA VALQPLSGTSLQDSSEEKSSQW
7707	38075	A	7761	1	558	
7708	38076	B	7762	1	1189	
7709	38077	A	7763	604	1760	NSWCRWFNFRY*YPTFYWES*NT*IPLREWFG*NHDASCP*TLDSKSFSFETRTGSPCSSLQTAYCGTLWIVQGV
7710	38078	B	7764	1	474	
7711	38079	C	7765	1	3384	
7712	38080	C	7766	1	333	
7713	38081	A	7767	1	390	
7714	38082	A	7768	3	728	
7715	38083	C	7769	184	529	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7716	38084	A	7770	2	837	CHCGPP/VKVEAYGSQVLKGVL AQVQLTVGPVGPRTHPVVIFPV PECHIGIDMLSSRQNPHTGSLTG RVWTIMVRKAKWKPLELPLPR KIVNQKQYHIPEGIVEISATIKD LKDAGVVIPTTSPFNSPIWPVQK TDGSRWMTVGYCKLNQVVTP AAAVPDVVSLLAQINTPPGTWY AAIDLANDFFPIPVHKAHQKQF AFRWQGRQYTFTVLPQGRWEI NMTKIQGPSTSVKFLGVQWCG ACQDIPSKVKDKLLHLVPPTTK K/EAQCLSGFRREHIPHL
7717	38085	A	7771	2	469	
7718	38086	A	7772	3	587	YPASAGLMLQNFGVIGLRYHF AIHSPAAGGLLDGLHAVAAIQG ITKIETTPNHQRAPAHWTLTQ QAHLPSPHLFNLPLTLCLMHC PTAIPHCFADARTWVNLPTSSLI GHKKENLKEFISGLIVHEILEE VLQAEGDFQPFTRVTVHWGKG NDQTFRGLLDGTSELTLIPGDP KHHYGPPVKVGAYGAQLL
7719	38087	A	7773	1	633	MTVDYRKFNQVVTMAA/AVP DAVSLLEQINTFPGTWYAAIDL ANAFSIPVHEAHQKQFAFLPQ GYINFPALCHNLIRRELDFFLL QDITLVHYIDDILLIGSSEQEVV NTDLLIHKRSKEAEHTAASRIR VSCLPEQKSHEQTLPEQVPSS GDIKEYFPNAFVLLTTASLQGG DNTSQLQLTWKAPEDIKMSKT DADADEEIEALRG
7720	38088	B	7774	1	1431	
7721	38089	B	7775	75	947	
7722	38090	A	7776	6107	6706	MVVVFLHKCLHYFHSTQLVISR YNSPTSEYFQALDLTWRALGT VGSAPPILPDGGTNRQFPIL SHSGLHRNVLPETDSQSEDRL PVTWLAVSACCCQQMVGGNP TRSKL*RTGSHYHLPG\WEP*RP HFPHAGSLAWQWLLCSSLEHSF GA*ELPCNPCKGWCLCPCHFIF YIFNSFLSNCPIQLCNWHSSYFI

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7723	38091	A	7777	1	3179	MAEGKEEQVLSYTDGSRQREN EEDAKAETPDKTIRSHETYSLPR EWYEGNRPHDSITSQWVPPTTR GNYGSTIQDEIWVGDHSGYVRP VPVPRSLNSDISYFGVGGKQAV FFVGQSARMISKPADSQDVHEL VLSKEDFEKKEKNKEAIYSGYI RNRKDDYDNHTGIDLVGTHIATI KGSNEEDTDTPFIGKVRTLEFP FVNGSAEIMLMPSNQKHKTDE KGRANLGVFSVFAPRGEHTLQ VKAIYNKSIIEGP
7724	38092	A	7778	281	1531	VRVLSPVEKELKLWKNT HKLL SYPTVGAAVTQLQNLTAMGVI GSHGARGQVVALNRQRQGD LPFTRVTVHWGKG/NMQIFGGL LDTGSELTLPKDPKHHC GPPV KVGAYGGQVINGVLAQVQITV GPQTHPVVISPVPECHGIDILSS WQNP HIGSLTGRVRAIMVGKA KWKPLELPLPRKIVNQKQYCIP GGTEEISATIKELKDAGEVIPIPT TFPLNSPIWPVRKTDGCWRMT VDYCELNQVVTPTAATVPD VV SLLEQINTSPGTWYADIDLANA VFSIPVHKAHQKQFAFSWQQG QYTFTVLPQEYINSLGLCHNLI WRDL DGFLLQNTLLVHYVD DIMLIGSSEQEVANALDLLVSM ASSRVPYDQLTEEEKARFTDGS ARYAGTTRKWTAAALQPLSRIS

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7725	38093	A	7779	332	2159	RGYVFCSWKKT DGS/WRMTVD YCKLNQVVIPIAAAVSDVVSLL EQINTSPGTWYAAIDLANAFFSI PVHKAQQKQFAFSWQGQQYTF TVLPQWYINSPALCHNLIRRD DCFSLPLDITLVHYIDIMLIG\ P RQLLACYWALVETECLTLGHQ VTI*PELPIMNWVLSDPSSHKVG HEQQHSIIKWKWYVHDWARA GPEGTTTPVISQWPHEQC GGG RDGGYAWAQQCRLPLTKADL NTATAKRPICQQQRPTLSPQYG TIPQGDQPATWWWVDYMGSL PSWKGQRFVLTGIDTYSYGFA YPACNASAKTAICGLTECLIHH HDIPHSIASDQGFHMAKEVRQ WAHDHGIHWSYHVSHHPEAA GLIEWWNGLLKSQLCQLGDN TWQGWGKVLQKVYYALNQHIP IYGTVSPIAKIHRSRNQGLEVAP LTITPRDPLAKFLLPFPATLQSA GLEVLVPEEGTLP PGDTMIPLN WKLRLPPRHFGLLPLNQQAK KGVTVLAGVTDLDYKDEITLLL HNGGKEEYAWNTGDPLGLLLI LPCPMIKVNGKLQQLKPEALVP KGVVFPPGDTTMLSLSWKLRLP SGHVGLLMPLSQQVQKGVTVL
7726	38094	A	7780	84	202	
7727	38095	A	7781	1	551	RWGSHTVAQAGVQWCDHGSL QPRSPGVK*SSHLSLLGSWNHR HATTPG*FCFFSRIRSHCVAQA GL*LLTSNHPPALASQT VGITG VSHWTPNTGFSVLTATNKNL KFFHYAISKCLVRAKLSSRLKI EERNKALSAPVVSVSIFDRVLR LLGYSASDWQPEFVETA VSNFV IYGIFRGQ
7728	38096	A	7782	1	678	MPACRLGLLATALIISLLLF GFTI VSGTGAECTGVCPQLQADQNC TQECVSDSECADNLKCCSAGC ATFCSLPNGQLAE*FEESESSL DTVSPFVVFQSISSLRIE*ARA GDSSQ\ DKEGSCPPGVTI* LFPSS GLC\ RDQVPGGTAQCPGQ\ M\ K CCR\ NGCGKVSCVTAQFLSSSH HQAQVRRDSFLPGPASGFQAH LPSPFFGTLYSLFGLTTSFSLSQP

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7729	38097	A	7783	1	1972	MAVNGCLEGPSSNFLSCLFIVA LVGSESTHPLCLEQPATQETRY QLLQLRPAQRASWIGYAIAYHL LEDYEMAAKILEEFRKTQQTSP DKVDYEYSELLLYQNQVLREA GLYREALEHLCTYEKQICDKLA VEETKGELLLQLCRLEDAADV YRGLQERNPENWAYYKGLEKA LKPANMLERLKIYEEAWTKYP RGLVPRRLPLNFLSGEKFKACL DKFLRMNFSKGCPPVFNTLRSL YQDKEKCAIIEKL VVG YETSLK SCRLFPNDDGKEEPPTLLWV QYYLAQHYDKIGQPSIALEYIN TAIESTPTLIELFLVAKIYKHA GNIKEAARWMDEAQAALDTAD RFINSQCAKYMLKANLIKEAED MSSKFTRGGTSAVENLNEIQCM WFHTECAQAYKAMNKFGEAL QKCHEIERHFIEITDDQDFHTY CMRKITLRSYVDLLKLEDVLRQ HPFYFK/EQARIAIEIYLKAS*QP PYR*GIKGTRRLDTAK\LSDEL KKLRNKQRRQAQKKAQIEEEK NAEKEKQQRNQQKKKDDDDDE EIGGPKEELIPEKLAKVETPLEE AIKFLTPLKNLVKNKIETHLFAF EIYFRKAAKMVYYLDPSSQKR AIELATTLDLSTNRNLQTCME VLEALYDGS LGDCKEAAEIYRA
7730	38098	A	7784	264	429	HRAAPATSDTQE*HRSNAFGEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEETLFSN
7731	38099	A	7785	1	681	
7732	38100	A	7786	415	692	
7733	38101	B	7787	1	2204	
7734	38102	A	7788	1	615	MPVDHPPKAFSEKRTSQSVNM LAKTHPYNPLWAQLEWFKLLEI SPKSPINTDKFLLKRLSVPGSDS CRVRMENVLASQVLHPG\QLM M*EGSGWAEARIT/V/CS*AANP *KWHPASLPLPW*CRVRMENV LASQVLHPGHADDVGGKWLG RSKDHRAPEQQTRESGIRLPSLF PGSAEQPWRGNAQWHLWKA LRGVFGMIPDSLLYEFHQSAKK SSHFKPPQPLLYWTLVNFLIPFS LHSSTWFMWSSNQGIMCKEEV

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7735	38103	A	7789	3129	3197	TQNRACSPDTEQLARQSGTYP VSLGQATVLEDSKAALPGLGPT LMAVTVVTTTEAAVAIGCEAAH SSREDFTNHQLWRRVTEGKKG EGKNKFMSSGGVNTTVPLLKTS RKGSPDSPHLREKPSLEKVTFQI GSFASPESDFESRMKKMEERVK ACGPSLEASEAADVAQDPQVS RSPFKPGFQENVCCPQNRLSEG DEGESDKGFAEDRGSRNDDMAA DIAGQLSHAADLTASHDDVT YAIKPTCWPLDIIIPSL
7736	38104	A	7790	1	1069	MAEKEAGMSYMAEVLGFVA VIIAECLKRIRFFENFTVAEERS TDETFSLAEETCSSNPAMVRRK KIAISIIIFSLCEKEEAQRNFQDFF FSHFPLFESHMNRLKSAIEKAMI SCRKIAESSLRVQFYVSRLMEA LGEFRGTIWNLYSVPRIAEPVW LTMMSGTLEKNQLCQRFLKEF TLLIEQINKNQFFAALLTAVLTY HLAWVPTVMPVDHPPIKAFSEK RTSQSVNMLAKTHPYNPLWAQ LGDLYGAIGSPVRLTRTVVVGK QKDLVQRILYVLTFLRCSELQ E/IPADLEWQSW*R*PAMVRRK KIAISIIIFSLCEKEEAQRNFQDFF FSHFPLFESHMNRLKSAIEKAMI SCRKIAESSLRVQFYVSRLMEA LGEFRGTIWNLYSVPRIAEPVW LTMMSGTLEKNQLCQRFLKEF TLLIEQINKNQFFAALLTAVLTY HLAWVPTVMPVDHPPIKAFSEK RTSQSVNMLAKTHPYNPLWAQ LGDLYGAIGSPVRLTRTVVVGK QKDLVQRILYVLTFLRCSELQ ENQLTWSGNHGEDQVLNGSK IITALEKGEVEESEYVVITVRNE PALVPPHPTTNSRETQPLADR
7737	38105	A	7791	118	273	FSLSNLVQFFRVCNDHLYTKLH FCFLQAEVKASNFCIYDSLGH LGSHHTVECIATDEHTLHLTSP MG*SQGKQFLHLRFSWACPGIP PHS

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7738	38106	A	7792	1	551	MQPELPIMNWVLSEPSSHKVG HGQQHSIIKWRWYICDWAVVG RESTTNGLA\GWS\GTWKKHD WKI\NDNEIWGK\SMWIDLSEW SKTVKIFVSHESAHHIT*KSSAE EDFNNQWDGMTCSVDTTTHPLS LTTSVIAKWAHEQSDHGGRYG GYAGAQQHGLPLTKADLAMTT AECPICQQQRPSLSP
7739	38107	A	7793	1	782	MTKIQEPSTSVKFLGVQWSGA YQDIPSKVKDKLLHLAPPTTTK EAYLGL/FGFWRQHIPP/LGTEQ EKTLQHVQAAVQVALFLEPYD PADPMVLEVSADRAIWSLW QAPISESQWRPQGFWSKALPSS AANYSPFERQLLAYYWALVET EHLTMGHQVTKQPELPIMNWV LSDPSSHKVGCAQQHSIIKWKW YICDRARAGPEGTTTPVITQWA HEQSGHGGRDGGYTWAQQQG LPLTKADLATATAECPICQQQR PTLSP
7740	38108	A	7794	65	230	
7741	38109	B	7795	1	2115	
7742	38110	A	7796	1	246	
7743	38111	A	7797	1	1293	MAAAACLDASGEARPGLRPPW SQQGRKQAGALPPTKLAGLLA QLQPAEAPDLGIPVLSATREDPL SPQARKCLLPGLSPCSQHLL WCRASCRAWGPSRPSRVCTG LDTAVTPAPCRLSPLWTSGADK RGREASRGEGSSKWACRHPSA QTAWAVEGDRHRFLSRKGQIT GKTPSSQQQPEAWGLSCSCPH TLHTSFFLDTGPLNGGTEKAVT QTGPKHAPCSPGCGQQGGKGC GPSGTPDLGALRAVTVGLCS SWHLQASGHHCIPQYLQKLL VVHLVQPQCTKPVPVPSFRLQ MTIENMNLKFIHKDYTANRL VSGLLQLPSNTSLVIDETLL\EQ GQLDTPGVHNVLTALSNLITWQ KVDYDFSYHQMEFPCNI\KVFIT SEGRSLLPADVPDSLTPANST KHGGST*TAFSQRCLPC

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7744	38112	A	7798	1	2555	MPSHLNQHQIHTKEKSYKCEE CGKSFKRSSNCTTHKRIHTGEK PYRCEECGKAFRWPSNLTRHK RIHTGEKPYTCEECGQAFRRSS TLTNHKRIHTGERPYKCEECGK AFSVSSTLNDHKRIHTGEKPYT CEECGRAFNCSSTLKTHKRIHT GEKPYKCEECDKAFKRHSSLA KHKIHTGEKPYKTGS\CILLQR YCWSTT*TIHFKK*S*EN/PGSC DLNTRLRLKKDYQRVGNCKGQK SSYNGIHQCLSATRSKTCQYNK CGKAFGLCSIFTEHKKIFSREKC YKCEECGKDCRLSDFTIQKRIH TADRSYKCEECGKACKKFSNL TEHNRVHTGKKPYKCEECGKT FTCSSALTKHKRNHTGDRPYKC EECHKAFRWCSDLTKHKRIHT GEKPYKCKECKKAFRCCSDLT KHKRIHTGEKPYKNECGKAF MWISALSQHNRIHTGEKPYICE ECGKAFTYSSTLISHKRIHMELR PYKCEECGKTFKWFSDLTNHK RIHTGEKPYKCEECGKSFTCSS NLIKHKRIHMEVRPYKCEECGK TFKWFPDLTNHKRIHTGEKPYK CEECGKTFTCSSLIKHKRSHTG DR/PYKCKECKGAFRWFSALL NISKHKRIHTGEKPYICEECGKA FIRSSLTSHKRIHMEERPYKCE ECGKTCIIHIGEKPYKNECGK GFMWISALRKHKRIHTGETPYI
7745	38113	A	7799	212	461	TEEHLYPHWKGCGRKVKRLF QVRRGRGWIQTRQPGSMVKEP PLSEAGAESHVSC/RQGDCSRPP SFPLSPERVTPWLPDSHTW

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7746	38114	A	7800	1	1398	AAAERELELLRASLEHQRGVSE LLRGRLRELEEAREAAEEAAAG ARAQLRE\ATTQTPWSCAEKAA QTESPAE\GPP*LRRARPDPWTE TRAVAPAGILKSIMKKRDGTP GAQPSSGPKSLQFVGVLNGEYE SSSSEDT\NDSGDSENGGAEP GSSSGSGDDSGGSDSGTPGPP SGGDIRDPEPEAEAEPPQVAQG RCELSRLREACVALQRQLSRP RGVASDGGAVRLVAQEWFRVS SQRRSQAEPVARMLEGVRRLG PELLAHVVNLADGNNGTALHY SVSHGNLAIASLLLDTGACEVN RQNRAGYSALMLAALTSVRQE EEDMAVVQRLFCMGDVNAKA SQTGQTALMLAISHGRQDMVA TLLACGADVNAQDADGATAL MCASEYGRLDTVRLLLTQPG\C DP\SILDNEGTSALA\IALE\AETG MKVAALL\HAHLSSGHPDTQSG VTPLAPQTANTW
7747	38115	A	7801	3	408	
7748	38116	C	7802	141	251	
7749	38117	A	7803	1	1173	
7750	38118	A	7804	451	853	LQMHRLCGGHSLSGCGWHTAR GQELVGQCFL*GGGQLLGLQH PL/AENPTFQEYSLITSEAGLLEG RKKKNKTSRGPSPGATCPLGLP RTSPGATRPGPVS/HAAIASQRD SSRTRFSSSLDAAIARPYTTPSA
7751	38119	A	7805	1	2950	MAASRLELNLVRLLSRCEAMA AEKRDPDEWRLEKVGVTYSVA SGRVLFQDFTEQFQVLLPKDAQ PCREVISTLLEKMKIDKRNYQIG KTKVEPGV/EAWPLRRVRRQPD QRQGLGAHRAGEAPGTRGDAR PVHRGPLPQVGCCQPHSGAPAG AADRPRSSQAGELPHPRHHRGA EAVAAGAARAPHDLRTVRRLP PSRRAAGEAGAAGCH/RMP STFQKPTTTPWRDSSSTLSSNHP LTASGCAGWPCSRMST
7752	38120	C	7806	398	415	
7753	38121	C	7807	13	81	
7754	38122	B	7808	1	972	
7755	38123	B	7809	1	1803	

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7756	38124	A	7810	1	929	IAAAPELLERSGSPGGGGGAEE EAGGGPGGSPD GARPGPSREL AVVARPRAAPTPGPSAAAMAR PLVPSSHKALLLELKGLQEPPV EGFRVTLVDEGDLYNWEVAIF GPPNTYYEGGYFKARLKFPIDY PYSPPAFRFL\TKMWHPNIYETG YVCISILHPPV/DTDPQSGELPSE RW\NPT\QNV RDHSS*V*SSLLE RRPNTFLRPANVGRLPWMLQG SWEREQGGRIRELHRTSFRKQV LGTKVDAERDGVKVPTTLPEY CVKDQGRRAPDEGSDLFYDDY YE\ DARVE\EEADSCFGDDED DS
7757	38125	A	7811	2	296	LSLSFFFVKAHFYVKSMLHSKD ASGISGMDFYVVQ*FSWQTAY AGEVGRWLSPALTERGSGQTL* TWCWRVFCVCLE\GHMWVTEA YVTVKH*NYSKVK
7758	38126	A	7812	397	410	SPGEI*G*VPPLLG*GVLLYQPP LFKIWEAPLLPDLLQK*KL YSL WLNKALGK
7759	38127	A	7813	2	739	ELCALVFGVNTFFATIVKTIITFI VSDVRGLGLPVRKQDSVVVFL DCPSIW*LRYIDLLILRVHLQIH LWGLRGRAEFKHI/RSAAEKK LTRIPSVNGE*TGKSPAPANS\PP RGARDMWRTGRPAPRRPLVGG PSPSDRGPASTTSPELAVGAVN GGPSSANISRGFWQSFHGNMC WFCAEPGVAGVPFTANIAGTEP GGLGQGRQCSLATQCHKPELK LQAKPAFPFSFSLSLFFFLKHL

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7760	38128	A	7814	594	2868	CWTSRNRPIPGSCHPMELPRPF RGKAKVQNHQLVHVNKALIN RGS�TFWLDDGAIQAWHCPVK TYYQYTPVSSKAMY/DAFWNG/ KFRDC/AFHSWLNEDPFVCEYQ GQSSDLQPPVNAGGGSGGGS GGSEGGGSEGGGSEGGGSEG GGSEGGGSGGGSGSGDFDYEK MANANKGAMTENADENALQS DAKGKLDVATDYGAIDGFIG DVSGLANGNGATGDFAGSNSQ MAQVGDDGNSPLMNNFRQYLP SLPQSVECRPYVLSAGSEIGAA CASRSGYDNKGVRDIGYTDCK RSEDLPLRHQILGGKKAIQFTL QGFPTLPEGAPAGNSGSLAVHK TAQSSYRHHALLILTPMSGTRF PIPGPVVNIRVFPFAPSSECRIC YSWSWVPGSPVHCQSDGSVIP SYAPLASQYSSSFLFFRNRQPYA PYDYLSVMTPSRTLREQIRIRYA PSAPRLPPPEVYCSNSTIVYVRN NPSGPTPGFAGGTLLEGRSGGP FRFYAKRAKGDVLPKPSLNLPL QTLIRFMVDIACGMEYLSSRNFI HRDLAARKCMYEFWRTRGWE TAAAYYGGGTFFRKESQKLQ QSAKKRDAELANGALGIIELNN DYTLKKVMKPLITSNTVTDEIE RANVFKMNGKWYLF TDSRGSK MTIDGINSNDIYMLGYVSNLT GPYKPLNKTGLVLQMGLDPND
7761	38129	A	7815	2	474	RRFVSADNCRSLRWKSLYTPLD ADASVLISTGIDATQTNHGRQH LDETQVRVFGQHLMQGSYTTQ DGRSDVAISCCKLEMCAQQSY DQLLAATENWRQWWQKRRIT VNGG/GSSPASDADQTPAPGFR RDVGDRDWFAWRQCLLSALT RRRPVAYIVISSAMSGSCLPKQS D
7762	38130	A	7816	302	409	
7763	38131	A	7817	199	359	ARRQQVSVKSYRWEEDQHCG ELQGSE*VSDGLFKPP*S*HGW VEEERQKEQN
7764	38132	A	7818	1853	2032	VKQSTALLPHAVAC*PKVISSG ARGLKSILVLIRIVMMVSMPL QLALSGWGRFRLPG

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7765	38133	A	7819	118	445	AAGGEPGDAPWVPGVWEPPE VCRGPPPSSTFPHVPLSTFGASG PENSRDSCSWLSPQH*AA*VASG NNGPQAAQGSLSGIPDAATLSG I*RASILHVSVEIISPPGFR
7766	38134	A	7820	1	770	MRVLGIETSCDETGIAIYDDEK GLLANQLYSQVKLHADYGGVV PELASRDHVRKTVPLIQAALKE SGLTAKDIDAVAYTAGPLVG ALLVGATVGRSLAFALGRFGDP CTPYWRASVSARCWKIPAPNFR CALLGSAAYAVNHGTGLSKKP TTLGSDHSTPAQLAKRAGEA RRNGWQALFPWESARSGE TP/VICRH*HSHRAAAKSGLGA GGTSSGGRYRLGGYSILADHGG *KFHCA*RHGATSGDGKVL
7767	38135	A	7821	3	834	VGRVEIADQYQDLAILWNCLG SDHASSRQRRPFRGKAKVQNH QLVHLQQSSHQPWLPHFLAG* WGDSGLGGGS\EGGGSEGGGSE GGGSEGGGSGGGSGGDFDYE KMANANKGAMTENADENALQ SDAKGKLDSVATDYGAIDGFI GDVSLANGNGATGDFAGSNS QMAQVGDGDNSPLMNNFRQY LPSLPQSVECRPYVFGAVRHDV RRIRVTGVTRVTPPEEVDTSVH SRGAHRIRSGFAPKRSVRVTTD TCIKRNSTCGVKSLSLWDGGGF
7768	38136	A	7822	1	1044	

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7769	38137	A	7823	3	1472	GVVGERAGMARPGRPREGGSG/GYSRPVPPAGGPGP*RGRTRI/SGLANGAGPVVFQFLTELTRLFQKCRITSGSVYITLKKCKQREGSRAMLPGFPYTPVSSKAMYDAYWNGKFRDCAFHSGFNEDPFVCEYQQQSSDLPQPPVNAGGGSGGGSGGGSEGGGSEGGGSEGGGSEGDGSEGDGSGGGSGSGDFDYEKMANANKGAMTENADENALQSDAKGKLDSVATDYGAIDGFIGDVSGLANGNGATGDFAGSNSQMAQVGDGDN SPLMNNFRQYLPSLPQSVECRPYVFGAGKPYEFSIDCDKIKILRGVFAFLLYVATFMLPVIANIAIPQKRPFMQQTRCEVQCREDIEVQKLKSYDKLLASINKKPGVNGWQKRRTVNA GEAHQQALDYALYHLRIMTPAHDERSSIAAKGLTGEGYKGVFWDTEVFLLPFHLFSDPTVARSLRLRYRWHNLPGRARRKRDN GWAGGAPISVGKARAAAKK
7770	38138	A	7824	601	853	
7771	38139	A	7825	2	644	MAQQQ/RKFQAHKPAKSKTAA/A/ASEKNRGPRKGGRVIAPKKA RVVQQQKLKKVSLCCSGWS*T PGLKASSRLCLPKCWDYRRDTLWLFLSATFICRWNLRKSESGKK IEHDVVMKA\SSSLP\RKLLALK APSRRNGAAAA\TSSKTPSLRT AGPQLQGQHPTPLPSIWGPLQV NSHRLSLFRMRTLSPSDWASPR HSSGGPKGAENPGNDQGRYSH
7772	38140	A	7826	1	2616	
7773	38141	A	7827	1	504	

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7774	38142	A	7828	1	1068	MAEIQHK TIRPLLEGRDLLAAV KTGSGKTLAVLIPAIELVVKLKF MPRNGTGVLLSPTRQLAMQTF GVLKELMTHHVHTYGLIIGGSN RSAEAQKLANGINIIVVTPGRLL DHTQNTPGFMYKNLQVEDLAR ISPKKEPLYVGVDEDKANATVD GLEQGHFVCPSEKRYLLFTFL KKNQKKKLMVFFSACMSVKYP YGLLKYIDL/PVLAIHGKQKQN KHTTTFF*YCNADSGTLLF\QLE KLIEKNYFLHKS AQETYKSYIR AYDSYSLKQIFNINNLNLPHIAL SFGFKLPPFVDLNMNSNEGKQK KQGGFGYQKTKKVEKSIIFKHIS KKSSAAGSSLTQEMPVILNNF
7775	38143	A	7829	3	1851	
7776	38144	A	7830	1	905	MVFD AKYLTGWRFEDTVVQSN MKHQPFIVVNKHNVQVEYKGE TKSFYPEEVFFMVLIKMKEIAET YLGKTVTNAVVTVPAYFNDSQ HQATKDAGTIVSLNVLRIISKPT AAATAYRQKGIDFNTSIFHALF EELNAYLFHGTLDSEKALGN AKLDKSQIH DIVL/GPFEQGRH* MYGPGS*EIQS*R*EAEGQDVIQ EFS*KLCIRYESSC*R*ETSRQD* R*GQTEDS**GY*NYQLAG*ES DSEEGRISTSKSGESLQPHNYQP VPEYRRHTRRNAWGIP*WWSS LCWSFPRAPIEAD
7777	38145	A	7831	2	886	ARGACSSWVFCGFLRYWSQAY TPATMSKGPVAGIDL GTTYS CV GVFQHGKVEIIAN\DQGNRTTPS YVAFTDT\ERLIGDAAKNQVAM NPTNTVF\DAKRLIGR/RFDDAV VQSDMKHWPFMVNDAGRPK VQVEYKGETKSFYPDEVSSMV LTKMKEI\AEAYLGKTVTNA\V VTVPS\YFNDSQRQATKDAGTI AGLNVLRINEPTAAAIAYGLD KKVGAERNVLIFDLGGGTFDVS ILTIEDGIFEVKSTAGDTHLGGE DFDNRMVNHFIAEFKRKHKKDI SENKRAVRRLRTTK
7778	38146	A	7832	2	375	ASIEIDSLYEGIDFYTSITRARFE ELNADLFRGTLDPVEKALRDA KLDKSIH DIVLVGGSTRIPKIQ KLLQDFYEAVAYGA AVQAAIL SGDKS\ENV\QDLLSL\DVTPFP LGIETAGG\VMTPH

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7779	38147	A	7833	1	218	
7780	38148	A	7834	508	883	YYHSYQADT/IILGGEDFDNRM VNHFAEYKRKHKKDISENKRA VRRLRTACERAKSTVSSSTHAS TEIDSLSEGIDIYTSSTCASFEEL NADLFLSTLDPVEKALRDAKLD KSQIHDIALSINPDEAVAYGAA VQAAILSGDKSENVQDLLLLDV TPSLGIETAGRVITDLIKHNTTI PTKQTQTFTTYSNQPGLIQL YEGEHTMTKDDNLLDKFELTGI PPAPRGVPQIEVTFDTNSNGILN VSAVDKSTRKKNKITITNDKGH LSKEDIEYMVQEAKEYKAEDQ KQR/D/KVSSKNSL
7781	38149	A	7835	1	194	
7782	38150	A	7836	1	1482	MVFDAKRLIAHRFDDAVVQSE MKHWPFMVVNDAGRPKVQVE YKGESKSFYPEKVSSMVLTNM KEIAEAYLGKTVTHAVVAVPA YFNDSQRQATKDAGTIVGLNV LRIINEPTAAAYGLDKRHRSSLP ILTASL\GAGSGL*STQA/SIEIDC LYEGINFCTSITHARFEELNADL FRGTLDPVEKALRDAKFDKSKI HDIVLAGGSTRIPIKQLLQDFF NGKELNKGINADEAVAYGIAV QAAILSGDKSENVQDLLLFDVT PLSLGIETAGGTQILTTYSDSQP GVLIQAYEGKHAMTKDNNLLG KFELMGIPPAPRGVPQTEVTFD SDANGILNVSAVDKSTGKENKI TITNDKGCLSKEDIERMVQEAE KYKAEDEKQRDKVSSKNSLES YAFNMKATVEDEKLQGGKINDE DKEKILDKCNEIIHWLNENETAK KEEFEHQKKELEKVCNPIITKLY QSAGGMPGRMPGGFPGGGAPP SGGASSGPTIEEVD

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7783	38151	A	7837	2	2221	PRVRPRVRSPAALGFFVASFVIG ARPTPQQPWSKGPVAVGIDLGTT YSCVGVFQHGKVEIHAN\DQGN RTTPSYVAFTDT\ERLIGDAAKN \QVAMNPTNTVFDCQTV*LDGR FDDAVVQSDMKHWPFMVVND AGRPKVQVEYKGETKSL\YPEE\ VSS\MVLTKMK\EICRSLTLGKT VTNA\VVTVPVSYFND\SQRQAT KDAGTIAGLNVLR\INE\PTAAA IALQKFRQKRFGAERNVLIFDL GGGTDFVSILTIEDGIFEVKSTA GDTHLGGEDFDNRMVNHFAIE FKRKHKKDISE\NKRAVRRLRT ACERAKRTLSSSTQC\SIKIDSL* EGIDFYTSITRARFEELNADLFR G\TLDPGEKAL\DAKLKDSQIS *YLSWVGGSTSYSPRLQKSCCQ DFFQWEKELELRSINPGWKAV/ AFIGAAVPGQPFLSGRQVLENV\ QDLLLL\DVTPSPVVLKTAGG VHDCPPSKRNTTIPTKTQTFTT YFWTTQPGCGLFRFYEGRALP WTKDNQPALASFELTGIPP\APR GV\PQ\NEVTFDIDANGYTPWSL AVDKKYGKKRTKITITN*QGPF *AREDIGTYGSREAEVTKLEG GGRQEGTRVSSNDF*GMPFEN MKSTLLKDEKL\QG\INDEGQ NRRFLDQV*LKLSNL**ESRL LEKEEFEHQ\KELE*VCNP\IIT QAGTQSARRHCQGGNPWGAFL
7784	38152	A	7838	3	757	PFPGRVVRVRLHPVILASTVDSY ERRNKGAARVIGTLLGTVNKH SVEVTSCFSVSHNESDEVAVDM EFAKNMYEL/H*KVSPNELILG WHDITEHSVLIHEYYSREAPNP IHLTVDTSLQNGHMSIKAYVST LMGVPGRIVGVFTPLTVKYAFY DTECIRVDLIMKTCFSPNRVVG LSSDLQQVGGASARIQDTLSIVL QYAEDILSGKVSADNTIRKVGH FLMSLVNQVPKIVPDDFETMLH SNINDLLMVT
7785	38153	A	7839	1	1821	
7786	38154	B	7840	16	1305	
7787	38155	A	7841	1	359	

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7788	38156	A	7842	2	1085	GVAPWGRGRAAPRCASATVGG SGIGRLR\GITSSGL\KMDNKKR LAYAIIQFLHDQLRHGGLSSD\A QESL\EAIIQCLETAFGVTVEDS DLALPQTLPEIFEEAAATGK\EMP QDLRSPARTPPSEE\DSAEERL KTEGKPKQMK\VENF\EAHVHF LTEKPFELNPSQRPSYFCNRAA AYSKLGNYAGAVQDCERAICID PAYSKAYGRMGLALSSLQQHL\A EAVAYYKKALELDPDNETYKS NLKIAELK\LREAPSPTGGVGSF DIAGLLNNPG\FMSMASNLMNN PQIQQ\MSG\MISGGNNPLETP GT\SPS\QNDLASLIQ\AGQQFAQ QMOSVGIPRVV**SAQESSIRS TPSASNDDQQE
7789	38157	A	7843	225	398	FIIDYTNSCIFHQNICLICSNRNF RQSNVVMICHY*TLQEIKTFC* MNSSLWSIIF
7790	38158	C	7844	162	269	
7791	38159	A	7845	273	501	HKDQPIQTENDHPSTNFSFVLK LHDPLLNEMDLIVWVSF*Q*SC FYL VHPNCCSPLV*HP*SENPKE SNEYFLRVS
7792	38160	A	7846	1	867	
7793	38161	A	7847	185	1325	EEQQTNLASKKKKSCIMLEKTEN KIRLVIVSEEEKKKVLKRMP*K MTVRAHHGISRTPHSWVESNY YWDICDQWMS/EPVGYMPCQH CQVAKNTVIVAPKQHLLQGGKI PWSLVTVDLMGAFSYKPKS/N VYAIIMTDLFTKWIVILPLCDVS ASEVSKAIINIFFLYGPPQKIIMD QRDEFIQQINIELYRLFQIKQIVI SHTSGTVNPTESTPNTIKAFLSK HCADHPNNWDDHLSAVSFAFN VTHLEPTKNTPYFQMFKEKNP LYYLPETSDSLHEVDGDNTSMF AKILDAIKEADKIMENKTTSLG QMENNNDLDELNKSIIIVKKKPK QLNPFHLKVGHGSFKTEKLV GRMVVFQSWNGVGPLCHRLY YRKWMCCP
7794	38162	A	7848	2	455	MADRLTQL\QDAVNSLADQFC NAIG\VLQQCVPPASFNNIQTAI NKDQPANPTEEYAQLFAA\LIA\ RTAKDIDVLIDSLPSEESTAALQ AASLYKL\EEENH\EAATCLGG MLFIEGDMLLGGRYKGALA\DI\ AQSQLEGQGS GYP*ASLFPDS

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7795	38163	A	7849	229	560	
7796	38164	A	7850	1	1077	
7797	38165	A	7851	25	690	WPSDEAEGYSEHFVEFVKDVR KRFPQHTIMAGNVVTGEMVEE LILSGADIHKVGIGPGSVCTTRK KTGVGYQPQLSAVMECANAAH GLKGHIISDGGCSCPGDVAKAF GAGADFVMLGGMLAGHSESG GELIERDGKKYKLFYGMSEM AMEEVLLGGVAEYRTS\EGKT VEVPF*REMLEHTIPRHP*GGIR SVTCTYVGA\AKLKRR*ARTNYL HPEVHPAR
7798	38166	A	7852	768	1857	EGGHHFGGQGADSAAPFGSASI LPIKLDVHPHDGRRRAEKS KPG GNPQRQLYCQPPAGCLPGAVY RPRSRGARMYSRYSPAERRNP DQRAGYCQAPDRLRFSRADDC RSRWRHVHFGTSRHCAGDRAV RPPHSAAEALPVALPVFQ*PTA DQ\VLFPSLIAACYNHNHQNKIL EQEMSCVLLATFIQTRAQQRKY KRRNNRGIPRESTAREQARHNA NKAQQPRKHARNGASPAQQRK NRAAARDKDEKPAQQKDKAR QSAPEKKNRAIRGTNSREQAAK AERNRRQRRGGQKGAQGGQHR EEAGEPTYVDEKAQAATSPPPQ TPHPAPDHDDAEDHRTDNTNR NAHQPKVYTHKDTPTNESR
7799	38167	A	7853	1403	2028	RRIQTNGRTFHAHGGPSRGLPE ELGKDHREKETSSRTL*QFQPN AKSPGQNLRESMNPVC/MTQQ ARRLQRLAKDLLKQVQVQDSG SWANNKVSALDRTLGEITRILE KERSRRGKGPSKEDLEGAAN/G VRRTM/WMSGNLVKESQPHPT HRPNILT*YPSIFP*STLLTLWL KVQLQQKL*KMEKSGKKIKKK PKR*KPG*TSGTLNTL
7800	38168	A	7854	1	675	

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7801	38169	A	7855	2	1110	AQEEEEAKVNEIAFINTLEAQNKRHDVLSKLKEYEQRLNELQEERQRRQEEKQARDEAVQERKRAL EAERQARVEELLMKRKEQEARI EQQRQEKEKAREGAARERARD REERLAALTAQAQPRSYGRVTEK NSAQA**KYSKAH/RNRLNKEK KKLLS*AVGDMQILIMPPN*PL YERKKQCSLCNVLISSEVYLFS HVKGRKHQQAVRENTSIQGRE LSDEEVEHLSLKKYIIDIVVEST APAEALKDGEERQKNKKKAKK IKARMNFRAKEYESLMETKNS GSDSPYKAKLQRLAKDLLKQV QVQDSGSWANNKVSALDRTL GITRILEKENVADQIAFQAAGGL TALEHILQAVVPATNVNTVLRN
7802	38170	C	7856	65	425	
7803	38171	A	7857	1	1131	
7804	38172	A	7858	953	1311	FLFFIFFNYFFFGGRKCPDLLVAP RLEVQMAVILGSLQVSPPGFK* FSLPQSPSSWDYRHAPTHAQPNFVFLVETGFHHIGQAGLELQTS GDPPTSASQTAGITGVSHRAW PGTILFLK
7805	38173	A	7859	2	857	FVDIFQRWKECRGKSPAQAELS YLNKAKWLEMYGVDMMHVVR GRDGCEYSLGLTPTGILIFEGAN KIGLFFWPKITKMDFKKSKLTL VVVEDDDQGREQEHTFVFRDL SARTCKHLWKCAVEHHAFRL RTPGNSKSNRSDFIRLGSRFKFS GRTEYQATHGSRLRRTSTFERK P**TSLIPETFNVQSKQPSDSSPA LLLKQIQKS/NNYQPPISILISIPS PAPGGILTPQMSGHPFQDDRSH WKASASGDDSHFELCPTTQNPE GTLGGMPKYDVSEINVMTAL

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7806	38174	A	7860	1	936	MELTHLQPHEPQEDVHAVGLL LGLREQHHMVSEGPRQQSWQE ERTELA AVSRLLFNMYPLLIHK NHASPGIPNLLLHPRGLRAITIA VFGKQNTYIRLEPFKINVLEQIT KHIEKLQCGEHNFPQEIQEGK SHQNQHEAHFVVELCKYFLCQ EYLP SQITILTTYTGQLFCLRKL MPAKTFAGVRVHVVDKYQGE ENDIILLSLISNRICVALSRAKKG MYCIGNMQMLAKVSLWSKIIH TLRENNQIGPMLRLCCQNH PET HTLVSKASDFQKVTEEGC/MLP CEFRLGCGHVCTRA WHPYDSS
7807	38175	A	7861	218	580	
7808	38176	A	7862	3	1636	
7809	38177	A	7864	24	386	
7810	38178	A	7865	2	999	GRVGFFFAGNPGSDSFGGLLLG LTPVLRWVADGGTIPKRHELV KGPKKVEKVDK\ETELVAQWN YCTLSQE\KLRRPIVAL/CNFAD FYNK\EPVIEFLLDKSAEKGS/SG RQASHIKTH*RIVDRAESFPDNP CPGKGIKGN/D*KVDKHDDIQA GASSSSPVGGPGRWNGRHRFLL PSGGCGLCCFS*AEPWKEIKAG V\CHTCGAGLSRRMMIIVLNGT KEDVDLLKTMMEERRL*SEAG KENKENPRQQSLFQNDV SERS PRAIKS*DRGSLKKPAFDSREK KTNLAPKSTAMNESSSGKAGK PPCGATKRSIADSESEAYKSLF ITHSSAKR
7811	38179	A	7866	1	559	MGCDGGTIPKRHEL VKGPKKV EKVDKDAELVAQWNYCTLSQE ILRRPIVACELGRLYNKDAVIEF LLDKSAEKALGKAASHIKSIKN VTELKLSERALKEIKA EVCHTC GA AFQEDDVIMLNGTKEDVDV LKTR\WRREG*ERRGKKTKKP KAAEVCFQNPDVSGRKPQGPS KVKTREALKKPSP
7812	38180	A	7867	188	368	YVACMPAWPNVTVANQLFNV YFPARDMTVPSSPG/QPVVDQL STQGGARRDALEVVG YEDS
7813	38181	A	7868	179	554	LRPADPRSLVPGWALGLGPGAI LGPGRVTFPGGRPPPTHPPSLSF PPGGRQPLWVPALPAEEGRE/R LGRERE EGRKAGAGMA*AGL VL*CLQLQVQGQPLGGSWLST RLRSPRCHPWLLRRHLP

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7814	38182	A	7869	2	131	YKSELEEQLTSVAEEMRARLSK ELQA*KDRLGENMEKVRGRLV KYRGEVQAMLGESIEELRVRLA LYLRKLCTGFLRDADHL*RPA GREYGESKRTL
7815	38183	B	7870	1	3639	
7816	38184	A	7871	279	1077	IQHPRLSADDFRVNCETEPAM/* HAVENDIHGLCELQLETEIQAF KEELL/FMCKNHHEEVKGLQAQ IASSGLTVVVDAPISQDFAKIMA DIWAQYDEVAQKNREELDNRR SQQIEESTTVVTTQSTEVGA AK AMLTETRTVQFLEINLDSMRN LKASLENSLREVVARIALQME QLNGILLHLESELAQTWAEQQC QAQEQALLNIKVKLEAAIATY RRLLDGGKDFNLGDTLDCSNS MQTIQKTTRQRMKGVLSET NDTKLRH
7817	38185	A	7872	712	855	
7818	38186	B	7873	50	788	
7819	38187	A	7874	201	372	ICQMILKRRVLS*TQKHQATHG WNSAYSLTAPFPVSCQDHLCP L*AEAQISIKEEP
7820	38188	A	7875	3	323	FFFETEFHSAQTGVQWHPSS PQPPPPRFK*LSRPSLPSSWDYR HVPSPHGNFLHFQ*KRGSTNQA GLELPTSGDLAAFA\SPSARITG VSHCARPNYQCFLEFKY
7821	38189	A	7876	1	911	MLLTLAGGALFFPGFLALCTW ALRRSQPGWSRTDCVMISTRV SSVHVLATGSGVIRSCDDVI TGRHWLAREYVWFLIPYMIYD SYAMYLCEWCRTRDQNRAPSL TLRNFLSRNRLMITHAVILFVL VPVAQRLRGDLGDFVGCIFTA ELSTPFVSLGRVLIQACMNEMT ESLKQQTLLYKVNGLTLGNFV FPCR\ILLFPFMV\WSYGRKKGL SLVPSTLQHPILTATWANAFPR* APQIYWFCLLLQ\KAVRLFDT P QAKKDG*MLLGVRSLTPAAS STQHSMDQIVPWVASFQY
7822	38190	A	7877	2	283	SCHCTPAWILALSPRLECSGAIL AHCNLHLWG*SDSPASASRVA GTAGAHCRAWLIFCVLVEGMF HRVAP/GLVLNS*AQTIRLPRPP KVLGLQA

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7823	38191	A	7878	1	1042	PKVRSPIKRLAPAPAF\VRKQE LKKIVDP\LL*KKS*EFGHLDRDI QPQKRPPPLL*KWPR\YIRV\QG RRAILYK\RLKGPFCDPGFTQG PGTPQTS*SSLLK\AHKYRPRD KAQRSKQR\LLA\RAEKKAAAK GAVPQERAHVLRAGV\NPVSP PLVGEQEKL\SLVIA\HDRGSPS ELVVFLPALG/RVKMGVPYCIHK GKGKTGDGLVHQKALHPLSAF TQ\VNS\EDKGAF/ALKLVGSYQ GPNYNDRYDEVGRSFTQNTVIH KSFSQITGWLNL*EVLSDDQLG TAKQN*RN**P*KSQKTVSQAN CLFLSFQIRRHWGNNVLPKSV ARIAKLEKAKAKELATKLG
7824	38192	A	7879	3	472	GRGVAYRGPSRGTGPGRGDE RLQHGGG\SREGPPAAPAAAAP GYGQSCCLIEDGERCVRPAGNA SFSKRVQKSISQKKLKDIDKSV DLFQLQVNTLRRYKRHYKLQT RPGFNKAQLAETVSRHFRNIPV NEKETLAYFIYMKVSNKSRLDQ
7825	38193	A	7880	3	638	GRGVAYRGPSRGTGPGRVR*T ASARRRTAAKGPPPPQLPPRA TAKSCCLN\EDGERCVRPAGNA SFSKR\VRKSISQKKLKDIDKS VRHLY\CDFHK\NFIQSVRNKR KKEDQVYDGRENS/SPSTDIDP EVD\LFPACQVNT\LR\RYKRH* QVARPRPGFNKAPVSRQL*VDT FRNIPVD*KETLALLSSSMVKS KSRLDQKSGGWQAA
7826	38194	A	7881	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFSPKISDLILCLKKKIM NRHFSKEDIYAAKHKMKKCS SLAIREMQIKTTMRYHLTPVRM AIKKSGNNRCRRGCGEIGTLLH CWWDCKLVQPLCKSMWRFLR DL\DPAPILLGIYPKDYKSCCYK DTCTRMFIAALFTIAKTWNQP
7827	38195	B	7882	446	625	
7828	38196	A	7883	1	1875	

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7829	38197	A	7884	31	809	KPRLNRYVKNAEASGADAINW KKGY/LVMEDEMNMKREGKF REKRIKRNEQSLQEIWVYVCRP TLHLIDVPETLNAHKRKQERSK TDTLTSQLELEKQEQTTHSKAS RRQEITKIRAELEKETEKTQKI NESRSWFFERINKIDRPLARLIK KKREKNQIDAIKNDKGDITS DP TEIQTIREYYKHLVANKLENL EEMDKFLDTYTLPRLNQEEVES LNRPTGSEIVAIINSLPTKKSPG PDGSTAEFYQRYKEEL
7830	38198	A	7885	1	2142	MIILIDAEKAFDKIQPFMLKTL NKLIGDGTLYKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHTLGPV VGWGRGGIALVDIPNVNDKL MVLEVLARAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSQYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DPIKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPYT KIHSRWIKDLNVRPKTIKLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKKITNN PIKKWAKNMNRHFSKEDIYAA NRQMCKCSSLVIREMQIKTTM

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7831	38199	A	7886	209	3816	QGRPTFRFRKYREHHKDTFREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITDPTETITIREYYKHLANK LENLEEMDKFLDTYTLPRLNQE EVESVNRPTGSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASII LIPKPRDRTTKGNFRPISLMNI DAKIL
7832	38200	B	7887	1	3570	
7833	38201	A	7888	2	1624	
7834	38202	B	7889	67	3156	
7835	38203	A	7890	1	1416	MIILIDAEKAFDKIQPFMLKTL SKLGTGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIGLEDLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSQY KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPAR DIDQW/NRTEPSEIMPHTYNYLI FDKPEKNKQWGKDSLPHKWC WENWLAVCRKLKLDPLTPYT KINSRWIKDLNIRPKTIKLEEN LGITIQDIGVGKDFMSKAPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTTWEKIFATYSSD KGLISGIYNELKQIYKKKTNNPI KKWAKDMNRHFSKEDIHAAK KHMKKCSSSLAIREMDIKTTMR YHLTPVRMAIHKSGNNRCWR GCGEIGTL
7836	38204	A	7891	1	1932	

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7837	38205	A	7892	1	2347	MELKTKARELHDECTSLSSRFD QLEERVSVMEDEMNMNLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQSIEKEGILPNSFYEPSII LIAKPGRDTTKKENFRPISLMNI NAKILNKMLANQIQHHKKLIH HDQVGFIPGMQGWFNIRKSINV IQHINRTKDKNHMIIISIDAEKAF DKIQQHFMLKTLNKLVLVLA RAIRQEKEIKGIQLGKEEVKVS FADDMIVYLENPTVSAQNLLKL IGNFSKVSQYKINQKSQAFLY TNNRQTERQIMSELPFTIASKRI KYLGIQLTRDVKDLFKENNKPL LKEVKEDTNEWKNIPCSWVGRI NIVKMAILPKVIYRFNAIPIKLP MTFFTELEKTTLKFIWNQKRAC IAKSIFSQKNKAGGITLPDFKLY YKATVTKTAWYWYQNRDIAQ WNRTEPSEIMLHIYNYLIFDKPE KNKQWGKDSL FNKWCWENWL AICRKVKLDPFLTPTYTKMNSR WIKDLNVRPKTIKTLEENLGITI QDIGVGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTIRV NRQPTTWEKIFATYSSDKGLISR IYNELKQIYKKKTNNPIKKWAK DVNRHFSKEDIYAAKHKMKKC SSSLAIREMQIKTTMRYHLTPV RMAIIKKSNNRRIQ/GGIWCD RIL*R*TTCRVAKEIQLS*RR/W KRLQRTLSIPVLDAV*PPMF*AS
7838	38206	B	7893	1	1710	
7839	38207	B	7894	1	2265	
7840	38208	B	7895	1	2142	
7841	38209	A	7896	1	1791	
7842	38210	A	7897	1	1878	
7843	38211	A	7898	1	2091	

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7844	38212	A	7899	1	1751	MIISIDAEKAFDKIQQPFMLKTL NKLIGIDGTYFKIIRANYDKPTA NIILNGQKLEALPLKNGTRQGC PLSPLLFNTVLEVLARAIRQEKE IKGIQLGNVEVKLSLFADDMIV YLENPIVSAQNLLKLISKFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLKEIKEDTN KWKNIPCSWVGRINIMKMAILP KVIYRFNAIPIKLPMPPFTELEK TTLKFIWNQKRARIAKSILSQK NKAGGITPPDFKLYYKATVTKT AWCWYQNRDIDQWNRTEPSEI TPHIYNYLIFDKPEKDKQWGKD SLFNKRCWENWLAICRKLKLD PFLTPYTKINSRWIKDLKVRPKT IKTLQENLGFTIQDIGMGKDFM SKTPTAMGTKDKIDKWDLIK KSFCTAKETTIRVNRQPTKWEK IFTTYSSDNGLISRIYNELKQIYK KKTNNPIKQWAKDMNRHFSIE DIYAAKKHMKKCSSLAIEM QIKTTMRYHLTPVRMAIKKSG NNRNHLDFKHILGICYL/D*KI YQP*LHLVSRNRKPEKLSPKQA

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7845	38213	A	7900	1	2540	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQPDLIDIYGTLP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITSYLSHSAI KLELRIQNLTONHSTTWKLNLL LLNDYWLHNEMKAEIKMFFET NENKDTTYQNLWDAFKAVCR GKFIALNAHKRKQERSKTNTLT SINKIDRPLARLIKKKREKTQID AIKNDKGDITTDPTMQTTIRE YYKHL YANKLENLEEMDKFLN TYTLPRLNQEEVESLNR PITGAE IVAIINSLPTKKSPGPDGFTAIFY /HEL/LKENKIPRNPTY/RGCEGP LQGELQTTAQ*NKRGYKQMEE HSMMLDRKNQYRENGHTAQG NLQIQCHPHKATNDFLHRSGKN YFKVHMEPKKSPHRQVNP KPK EQSWRHAI*LQTLQGYSNQ SMVLVPKQRYRSM EKNRRLRN NAAYLQLSNL*QT*EKQAMGK GFLI**MVLGKLASHM*KAETG SLPYTLYKNQFKMD*RLKH*T* NHKNPRRKPRHYHSGHRHGQG LHV*NTKSNGNKSQN*QMGSN *TKELLHSCRNYHQSEQATYKL GENFCNLPI*PRANNQNLQ*TQ TNLQEKNKQPHQKVKGHEQT LLKRRHLCSQKTHEKMLSITGH QRNANQNHNEIPSHTS*NGNH* KVRK*QVLNGLDDVQLFR*NK QPCCSHKACLVVSSYRRA*SLV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7846	38214	A	7901	1	1593	MGKKQNRKTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSELQEDIQTKGK EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRSLR SRCDQLEERVVSAMEDEMNEK REGKFREKRIKRNEQSLQEIWD YVKRPNLHLMGVPESDGENGS KLENTLQDIIQENFPNLRINKI DRPLARLIKKKREKNQIDTIKN DKGDITTNPTEIQTIREYYKHL YANKLENLEEMDTFLDTYTLPR LNQEEVESLNRPTGAIEIVAINS LPTKKSPGPDGSIAEFYQRYKE E/PADKQLQQSLIQNQCTKITSI LIHQQTNRPNHE*TPIHNCFK ENKIPRNPTYKGCEGLLPGELQ TTAQGNKRGYKQTEEHSMMLM GRKNQYRENGHTAQGNF*IQC HPHQATNAFLHRIGKNYFKVH MEPKKSPHRQVNPKEQSWR HHTT*LQTLQGYSNQNSMVLV PKQGYRSMEQNRALRNNAAYL QLSDL*QT*EKHAMGK/EFPI**
7847	38215	B	7902	1	2337	
7848	38216	B	7903	1	1677	

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7849	38217	A	7904	1	1722	MAGYPSEMKLPEELSGSNICCS AVFTVLQPLLLIPRQTGSGVDL RQTPTDLQLRVLTVRRKNNKQ KRTSTPKPHLYVTIHKDQRSKKL TQNHSTTWKLNNLLNDYWV NNEMKAEIKMFFETSENKGTIY QNLWDTFKAVCRGKFIALNAH KRKQERSKIDTLTSQLELEKQ EQTHSKASRRQEITKIRAEQKEI ETQKTLQKINESRSCFFEKINKI DRLLARRIKKKREKNQIDAIGN DKGDITADPTEIQSTIREYYKHL YTNKLENLEEMDKFLDTYTLPR LNQEEDESLNRPITGSEIAINS LPAKKSPGPDRFTAIFYQRYKE ELHINRTKDKNHMTISVDAENA FDKIQQPFMLKTLNKLVLVLA RAIRQEKEIKGIQLGKQEVKLSL FADDVIVYLENPIVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYS NNRQTESQIMNELSFTIASKRIK YLGQLTRDVKDLFKENYKPLL NEIKDDTNKWKNIPCSWVGRIN IVKMGILPKVVYRFNAIPIKLP TFFTELEK\TTLKFIWNQKRARI AMTILS*KNKAGGITLP
7850	38218	A	7905	1	2310	
7851	38219	A	7906	195	791	GILSFAKDMNRHFSKEDIYAAK KHMKKCSSSLAIREMQIKTTMR YHLTPVRMAIHKSGNNRCWR GCGEIGTLLHCWLDCKLVQPL WKS VWRFLRDLELEIPDPAIPL LGIYPNEYKSCCYKDTCTRMFI AALFTIAKTWEPPKCSNMIDWI K/KMWH/IYTRDTMRPKNDEVQ SLVG/TWVNWETTFSVTIAVQK PTRLSH
7852	38220	A	7907	1	984	
7853	38221	A	7908	1	2076	
7854	38222	A	7909	1	1872	
7855	38223	B	7910	1	3309	
7856	38224	B	7911	133	3213	
7857	38225	A	7912	1	1364	
7858	38226	A	7913	1	3249	
7859	38227	A	7914	1	2757	

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7860	38228	A	7915	1	2268	MAGYPSETKPPEERSDSNICSSA IFTVLHPPLLIPRQTAFGMDLQQ MPTDLQLRVLTVKRKTNKQKG HPHQNPRTSPSSKTEDFQPTKI KRDKEGHYIMVKGSIQQEELTI LNIYAPNTGAPRFIKEVLRDLQ RDLDSHTIIMGEFNTRLSTLDRS MRQKVNKDIQELNSALHQADL IDISRNLHPKSTEYTFFSAPHRT YSKIDHIVGSKALLSKCKRTEII TKCLSDHSAIKLELRINKLTQNC STTWKLNLLNDYWVHNEM KAEIKMFFETSENKDTTYQNL WDTFKAVCRGKFIALNAHKRK QERSKTDLTSQLKELEKQEQT HSKASRRQEITKIRAELQEIQ RTLQKISESRSWFFEKINKIDRS LARLIKKKREKNQIEAIKNDKG DITTNPTETQTTIKEYYKHLYK NKLENLEEMDKFLNTYTLPRLN QEEVESLNRPTGSEIVAINSLP TKKSPGPDGFTAIFYQRCKEEL VTFLKLQFQIEKEGILPNSFYE ASINLIPKPGRDTTKKENFRPISL MNIDAKILNKILANRI/WGN*AE ERNKEYSIRKRGSIQIVPVC*H DCVSRKPHHLSQSP*ADKQLQ QSLRIQNQCTKITSILIHQ*QTNR EPNHE*TPIHNCFKENKIPRNPT YKGCEGPLQGELQTTAQ*NKR GHKQMEEHSMLMDRKNQHRE NRHTAQGNL*IQCHSHQATNDF
7861	38229	A	7916	1	4729	

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7862	38230	A	7917	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRIKNLTQNRSTTWKLN NLLDDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQLELEKQEQTHSKASRRQ EITKIRAELEKETQKTQKINES RSWFFERINKIDRQLARLIKKR EKNLIDAIKNDKGDITDPTIEQ TTIREYYKHLIYANKLENLEEM DKFLDTYTLPRNLNQEESLNR PITGSEIVAIINSLTTKSPGPDG FTAEFYQRAIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVS AQKLISNFSKVSQYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWKNI PCSW VGRINIVKMAILPKVIYRFNAIPI KLPMFTFFTELKKTTLNFIWNQK RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNYL IFDKPEKNKQWGKDSL FNKWC WKNWLAICRKLKLDPFLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTNRVNRQPTKWEKIFATYSSD
7863	38231	A	7918	1	1205	
7864	38232	A	7919	1	2274	
7865	38233	A	7920	1	2307	

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7866	38234	A	7921	569	3030	RKH*TWKRTSSTSHHKNMPN* LEKQEQTH/SKPSRRREITKIRA ELKEIETPKTAQKINESRSWFSE RINKIDRPLARLRKKKREKNQI DTIKNDEGDITTHPTEIHTIIREY YKHL YANKLENLEEMDKFLDT YTLPRPNQEEVESLNGPIAGSEI QAIINSLPTKKSPGPDGFYQRYK EELVPFRLKLFQSIEKEGILPNSF YEASIIIPKGRDTTKKENFRPI SLLNINAKILNKILANRIQQHIK KLMHHDQVGFIPGMQGWFNIR KSINVIQHINRTKDKNHMIIISID AEKAFDKIQPFMLKTLNKLGI DGTYHKIIRANYDKPTANIILNG QKLEAFPLKTGTRQGCPSPLL FNIVLEVLARAIQEKETEGIQL GKEEVKLSLFADDMIVYLENPI VSAQNLLKLISNFSKVSQYKIN VQKSQVFLYTDNRQTESQIISEL PFTIASKRIKYLGIQLTRYVKDL FKER/YNEIKEDTNKWKNIPCS WVGRINIVKMAILPKVIYRFNAI SIQLPMTFFTELEKTTLKFIWNQ KRAHIAKSILSKKNKAGGIMLP DFKLYYKATVTKTAWHWYQN RDIDQRNRTEPSEIMPHVYNHLI FGKPDKNKQWGNDSL FNKWC WENWLAICKKLKLDPFLTPYT KINSRWIKDLNVRPKTIKTLEEN LGNNIQDIGMGKDFTSKTPKA MATKDKIDKWDLMLKLSFCTA
7867	38235	B	7922	1	3171	
7868	38236	A	7923	1	2646	

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7869	38237	A	7924	321	2211	CCQFSMARRGHLPRSVQVSIPG QSPVPRAAYQDSGRYKEPTAD C/VGPRQT*CMAPHCHLGGWH MLALSLGKGAGAGGKESTWEP SPGIRMTKTYSTRREQSHPRTI/ KGQIKQMNLRETCSWTFHKKF LKTVAFAQISHPHKNTCLAMAVS ANRSMRQKFNKDTQELNSALH QVDLIDIYRTLHPKSTEYTFESA PHHTYSKIDHILGSKALLSKCK RTEIITNYLSDHSAIKLELRIKNL TQNRSTTWKLNKLLNDYWV HNEMKAEIKMFFETNENKDTIY QNLWDAFKAVCRGKFIALNAH KRKQERSKIDTLTSQLKELEKQ EQTHSKASRRQEITKIRAELEKEI ETQKTROKINESSSWFFEGINKI DRPLARLIKKKREKNQIDTIKN YKGDITTDPTIEIQTIREYYKHL YANKLENLEEMDKFLDTYTLP RLNQEEVECLNRPITGAEIVAI NTLPTKKSPGPDGFTAIFYQRC SRWIKDLNVRPKTIKTLEENLGI TIQDIGTGKDIMSKTPKAMATK DKIDKWDLIKLKSFACTAKETTIR VNRQPTKWEKIFATYSSDKGLI SRIYNELKQIYKKKSNNPIKKW AKDMNRHFSKEDIYAACKHM KKRSSLAIEMQIKTTMR
7870	38238	A	7925	1	3057	
7871	38239	A	7926	1	1830	
7872	38240	B	7927	1	3192	
7873	38241	A	7928	1	3484	MGTSEVQNGEERAGTSGQGSV EQLSGSSVQLPPGLKLCFEPYFS SCASDCILHASPLSLMAASGSQ NPNLWASWLCCKWVQCPRQ LGCHLTSSVIYGLRYPQAKRS ELELRDCEGLCNQTSPLSSLDG MGWKAAAEESNSGIRNIWIP AFATHKQYNVRQVISPPYWS HRGNGNNSLCVTRLSSGLKQP VAGTGRGLEGGSGTRDLMFPL SAAPKEQPILAPARRSWFFEKI NKIDRLLARLIKKKRE

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7874	38242	A	7929	1	1946	NLTQNRSTTWKLNLLNDYW VHNKMKAEIKMFFETNENKDT TYQNLWDTFKAVCRGKFIALN AHKRKQERSKIDTLTSQLKELE KQEQTHSKASRRQEITKIRAE KEIETQKTFQKVNESSSWFFERI NKIDRPLARLIKKKREKNQIDAI KNDKGYITDPTEIHTTIREYYK HLYANKLENLEEMDKFVGTYT LPRLNQEEVESLNRPTGSEIVAI INSLPTKKSPGPDGFTAIFYQRY KEELAGRDTTKENFRPISLMN IDAKILNKILANRIQQHIKKLIH HDQVGFIQGMQGWFNICKSINV IQHINRTKDKNHMISIDAEKAF DKIQPPFMLKTLNKLVLVLAR AISQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSGYKINVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKLLSK EIKEDTNKWKNI PCSWVGRINI VKMAILPKVIYRFNAIPIKLPM FFTELEKATLKFIWNQKRARIA KSILSQKNKAGGITLPDFELYY KTTVTKTAWYSYQNRDIDQW NRTEPSEITPHIYNYLIFDKPEK NKQWGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKINSRWIK
7875	38243	A	7930	1	4801	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTTFFSAPHHTYSKIDHIL GSKALLSKCKRAEITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLNDYWVNEMKAEIKMFF ETK\ENK\DTTYQNLWDAFKAV CRGKFIALNAHKRKQERSKIDT LTSQLELEKQEQTHSKASRRQ EITKIRAELEIETQKTLQINES RSWFFERINKIDRPLARLIKKR EKNQIDTIKN

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7876	38244	A	7931	1	3146	MGDFNTPLSTLDRSSRQKVNK DTQELNSTLHHADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHVV GSKALLSKCKRTEIITNCLSDHS AIKPELRIKKLTQNRSTTWKLN NLLNDYWVHNKMKAIEKMFF ETNENKDTTYQNLWDTFKAVS RGKFIALNAHKRKQKRCKIDTL ASQLKEVEKQEQTHSKASRRQ EITKIRAELEIETQKTLQKINES RSWFLERINKIDRPLARLIKKR EKNQIDVIKNDK
7877	38245	A	7932	1	2669	MHNTDGNRFLSHWGYRQALSI SKPASASLHPSSKTKPLGTQSKT VVAKRNRHGGKKERSSSPAME QSWMENDFDELREEGFRRSNY SELREDIQTGKEVENFEKNLE ECITRITNTEKCLKELMELKTK ARELREECRSLRSRCDQLEERR KQERSKIDTLTSQKLEKQEQ THSKAGRRQEITKIRAELEIET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDTIKINDK GNITDPTEIQTIREHYKHLA NKLENLEGMDKFLDTYTLPR NQKEVESLNRPI TGSEIVAIINSL PTKKSPGPDGFTAIFYQRYKEE LHINRAKDKNHMIISDAEKAF DKIQQPFMLKTLNKLVLVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLL SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLGQLTRDVKHLFKENYKPLL KEIKEDTNKWNIPCSWVERIN IVKMAILPKVIYRFNAIPIKLP TFFTELEKTTLKFIWNQKRARIA KSILSQKNKAGGITLPDFKLYY KATVTKTAWYSYQNRDIDQW NRTEPSEILPRIYNYLIFDKPEKN KQWGKDSL FNKWCWENWLAI CRKLKLD PFLKPYTKIKSGWIK DLNVRPKTIKTLEENLGITIQDI GMGKDFMSKTPKAMATKAKID

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7878	38246	A	7933	1	2962	MNNSIKEKVKLSLTKWEMQTK PNNNTVDLKDAQEVNLTSTDY RKQHVMLPTEINSDDSLKIGVI RLANWIKSQDPSVCCNQETHLT CRDTHRLKIKGWRKIYQANGK QKKAGVAILVSDKTDKPTKIK RDKEGHYIMVKGSIQQEELTIL NTYAPNTGAPRFIKQVLSDLQR DLDSYTLIMGDFNTPLSTLDRS TRQKVNKDTQELNSALHQVDL IDIYRTLHPKSTEYTFFSAPHHT YSKIDHILGSKALLS
7879	38247	A	7934	1	4220	MGDFNTLLSALDRSTRQKVNK DIQELNSALHQADLIDIYRTLHP KSTEYTFFSAPHRTYSKIDHLV GSKALLRKCKRTEIITNCLSDHS AIKLELRIKKLTQNHSTTWQLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWYVKDTRI SGMLWYVKAVCRGKFIALNAH KRKQERSKIDTLTSQLKELEKQ EQTHSKTSRRQEITKIRAELEKEI ETQKTLQKINECRSWFFEKINKI DRPLARLIKKKRE
7880	38248	A	7935	1	3229	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELREECRLSR CDQLEERVSAEMDEMNMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NLTLDIIQENFPNLARQANVQIQ EIQRTPQRYSSRRATPRHIIVRFT KVEMKEKMLRAAREKDRSTRQ KVNKDTQELNSA
7881	38249	A	7936	1	3227	MGDFNTPLSTLDRSTRQKANK DTQELNSALHQVDLIDIYRTLH PKSTEYTFFSAPHHTYSTTDHIL GSKALLSKCRRTEIITNYLSHDS AIKLELRIKNLTQNRSTTWKLN NLLLNDYGVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAV CRGKFIALNAHKRKQERSKIDT LTSQLELEKQEQTHSKASRRQ EITKIRAELEKEIETQKSLQK\INE SRSWFFERINKIDRPLARLIKKK REKNQIDTIKN
7882	38250	B	7937	1	2089	

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7883	38251	A	7938	1	3527	MELKTKARELREECRLRSPCN QLEERVSAEMEDEMNMKREG KFRDKRIKRNEQSLQEIWDFVK RPNLRLIGVPESDGENGTKLEN TLQDIIQENFPNLRQANIQIEI QRTQPQRYSSRRATPRHIIVRFTK VEMKEKMLRAAREKAPHHTYS KIDHILGSKVLLSKCKRTEITN YLSDHSAIKLELRIKNLTQNHST TWKLNSLLLNDYWVHNEMKA EIKMFFETNENKDTTYQNLWD TFKAVCRGKFIALN
7884	38252	B	7939	1	5238	
7885	38253	A	7940	1	3587	MENDFDELREEGFRRSNYSEL WEDIQTKGKEVENFEKNLEECI TRITNTEKCLKELMELKTKARE LHEECRLRSRCDQLEERVSAM EDEMNMKGEGKFREKRIKRN EQSLQEIWQDYVKRPNLHLIGVP ESDGENGTKLENTLQDIIQENFP NLRQANVQIQEIQRMPQRYSS RRATPRHIIVRFTK VEMKEKILK AAREKDRSTRQKVNKDTQELN SALHQADLIDLIDLIYRTLHPKS T EY T F F S A P H H T
7886	38254	A	7941	1	6202	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDYRTLH LKSTEYTTFFSAPHHTYSKIDHIL GSKALLSKCKRTEITNYLSHDS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNEN\KDTTYQNLWDAFKAV CRGKFIALYAHWRKQ\ERSKM DTLTSQLEELEKLEQTHSKASR RHEIAKIRAELEKEIE
7887	38255	A	7942	2	3134	WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPTFI QQVLSDLQRDLDSHTLIIGDFN TPLSTSDRSTRQKVNKDTQELN SALHQADLIDYRTLHPKSTEYT FFSAPHHTYSKIDHILGSKALLS KCKRTEITNYLSHSAIKLELM IKNLTQNHSTIWKLNNLLLNDY WVHKEMKAEIKMFFETNENKD TTYQNLWDTFKAVCRGKFIK\ NAHKRKQERS

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7888	38256	A	7943	1	4455	MELKTKARELREECRLSRNRN QLEERVSAEMEDEMNMKREG KFREKRIKRNEQSLQEIWVYK RPNRLRIGVPESDAENGTKLEN TLQDIIQEDFPNLRQANVQIQE IQRTQPQRYSSRRATPRHIVRFT KVEMKQKMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQEEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DL\IDIYRTLHP\KS
7889	38257	A	7944	1	6108	MTGSNSHITLTLNINGLNSAIK RHRLASWIKSQDPSV\CIQETH LTCRDTHRLEIKGWRNIYQANG KQKKAGVAILVSDKTDFKPTKI KRDKEGHYIMAKGSIQEEELTI LNIYAPNTGAPRFIKQVLSDLQ RDLDSTLIMGDFNTPLSTLDR STRQKVNKDTQELNSALHQAD LIDIYRTLHPKSTEYTFPSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLSDHSAIKLELRIKKLTQN RSTTWKLN
7890	38258	A	7945	2	788	CGLAIYNCTIVDLHFPLALYKK LLKKKPSLDDLKELMPDVGRS MQQLLDYPEDDIEETFCLNFTIT VENFGATEVKELVLNGADTAV NKQNRQEFVDAYVDYIFNTSV ASLFRCFSSGFHKVCGGKGLAR LFQPNELQAMVIGNTHF*WKG TGKDYRNTKGNIAEHP\TIKIF WEVFH\ELPLEKKK\RFLFLTG S\DRIPILGMKSLK\LVQSTGGG E\EYLPVSHTCFNLL\DLPKYT\K KETLRS*T*SQAIDHNEGFSLI
7891	38259	A	7946	1	1647	
7892	38260	B	7947	363	550	
7893	38261	B	7948	1	1123	
7894	38262	A	7949	1	3136	MVTHQQPAARKPNMTSKKPKP MGPKAHGIFSGTRKNNLEIYMD QTRTGIATKLSKNNKSGGMT LPDFKLYYKAIVAKIACGGS NSDTDEDEETEPSSSGQIIENSI TMNKMKLLKAKMKNMNLSSK HITQVSDEEEDDDGCDLFADSE KEEKDIEDIEENTRPKRSRPTSF ADELAARIKGDVGRVDEEPTT VSYEDDRRGKNQDAYTEGGLS TIKTVNCSSSLTLRRSKTSED TQ EKKERRTPSDDEED

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7895	38263	B	7950	303	1010	
7896	38264	A	7951	3	280	
7897	38265	A	7952	3	514	FYLKELDPAEHSYVLIRKIDPAL VWGLTGDQGTTPKTRLLMITLD SIFMQASCVPPEVVWEVLRVLE AH\SSKKHFVFGESMKLITKAS VQQEYLVHK*VSHSNPTLYVFL WGLSKETRQMEVPEFVAKVND THPSSFSVGSK*GI*EKEGGRYP VPENMGSCRLVTVTSASV
7898	38266	A	7953	2	351	
7899	38267	A	7954	2	529	EKGERPHWSNKPNSLKRTHL DIDENPASDFDDSGSLLGFKYG SGQKYGGIPYFSHRQVR**EKN VKLKAKYLNMRGQIKMKNKHI FFTKETEKPFKKSKILSKVEKF LTWVNKPMDEEASQESSHDN GHDASTSCDSEEQDMSVKKGD DLLETNNPEPEKCQSVSSAGEL
7900	38268	A	7955	1	1370	MPVGTSNLLLGLLENPNLPLT RSPFPSPQREASWGIQKATTGP GEGECTRLGFSLLLDVFCALHG PREKCVEILRSGHLLAISP GGVR EALISDETYNIVWGHRRGFAQV AIDAKVVEKFLTWVNKPMDEE ASQESSHDNVHDASTSSDSEE QDMSVKKGDDLLETNNPEPEK CQSVSSAGELETENYERDSLLA TVPDEQDCVTQEVPSRQAETE AEVKKKKNNKKKNKKVNLPE IAAVPELAKYWAQRYRLFSRFD DGIKLDREGWFSVTPEKIAEHIA GRVSQSFKCDVVDAFCGVGG NTIQFALTGMRVIAIDIDPVKIA LARNNAEVYGIADKIEFICGDFL LLASF*KADVFLSPPWGGPDY ATAETFDIRTMMSPDGEIFRLS KKITK\NIVYFLPRNADIDQVAS LAGPGGQVEIEQNFLNNKLKTI TAYFGDLIRRPASET
7901	38269	A	7956	3	560	RIHTGEKPYDCKDCGKA FGRTS ELILHQLRLHTGVKPYECKECKG TFRQHSQILHQRTHTEKPYV CKDCGKA FIRGL\QLTVHRRHT GARPYGVLKECGESLLDSTHS* LLHQ\RIHTG\EEPYECKECKG FIHSSEVTRHQRIHSGEKPYECK ECGKA FRQHAQLTRHQRVHTG DRPYESAED

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7902	38270	A	7957	155	1288	HTTASQTTMSQAVR/RRRSDYL SSARR/RRDPARSKPTQGGPPPN PPPTRQGRPTALTNPSPRPRHR AHPHQHATPKPRTNEEQEGRR HTKQPNPTRTEPRPPNRRGRPN PQTRRTKQQNTTPQAHTSTRKN ARTPGLCP*CVKGKTEGGYDA RASARGPYMAGVSWPGEHEDP GAPEARRGRRALPGVGSAPFEM STHTESTPKTTAHTSNDRRNRE QRVKKKTYKTTRSRGANRNST ERHEDGYFYGSLTTGPLPWHSA IHSVSAGQPWSLKFTVGLQQAS EGYFSQSQERSLPNRKSSVPRLR LLFLQQASRLSELPLGTEPGSL LLRPREELACTGKRRKTGGAIM GEVSVCELSLPAPAFQSPVQLC GCQPEKA
7903	38271	A	7958	1	2045	REAAAATPSFPPSSSVRPSVRAS VRSARSGPKHGRRQLQRPPPGA /RWRLTRR*SERRARPTGLCTH MKMAPMTSSLQHKEGACRSF RDTLRTRR*CTASAVSRTPK\RS AKIRAHQLGGRRCA*CPQVRLC QPRG*GGRVLPGCRDRERQQ RGRHRRGCHRAAAL*RAGATL QPCAAPTAAARG*ER/SSPWAPP TRRRMQLWK*SGLTESSGSRP RRKKSCGRRRSGRPPWMRGS SSRSGWSRSGRSKRSASGATGS GSSRSRSTGGNSRL*KRKRPRG G*RSSLSLVTIGMRRKRPT*RSQ SRRWRRQQLLPSGLTTQGSSS SSRKESHRPLRAAVMYPRPSTI DQAATWTATGGWRPLSPRGA RLTPAPPPPLSLSR*SGPWMRSP P/PQPPPLPPPPPAPKRPRSPAPS* TVRRPEQQPLRPGPAPWRSPLR HRRLPGGQAALQRT*CSWSLQS RLSWLLPWSLPQLTPRRSTMQL TPLKLTPLLTPLLPTTYPPPPA SLTYGLATGKGPPHSRVSPGPP RHPRVLRSPWQRCPCWMRWL RSHCCQAKAVPPFSTLMSCLS RQPPSVTQRKWKGPWLPPRPQ LCPQPLRSWSKSRSPCTC*PM ARPPRRRGPRPSEGYFSQSQEEE FAQSEELCAKAPPPVFYNKASE NVIHMLGCRPSSRRGGGLRGW
7904	38272	A	7959	3	174	

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7905	38273	A	7960	3	862	GVMASRTL L L L L L L L L L L GALALTET WAGTHSIRYFSTAVSRPGRGEP RYIAVGYYDDTQF\DAATPRM* PQSPWLEQEGPEYWDRSTRNIR PAHRLTRVNLPMPRYYHQS* AGTGIFHGIRR/YIPDTCVQTHM IHHSVSDYKATLRCWALGFYP VEITLAWQ\QDEEDQTRDHE\L VETRPAGDGTGFKWA AVVVP GQEQRYTCHVQHEGLPKPLTL RWPSSQPTIPIVGIIAGLVLFGA VITGAVVAAM/WQEEELRTFS SHR*SELTSERASSDHAQGS DV SLTACKV
7906	38274	A	7961	1	591	MVTDYAIELFLQASLILLSSTLP YNEREMGLSIFALLTLTVFLLLL ADKVPETSLSVPIIKYLMFTMV LVTFSVILSVVVLTLHHRSPH QMPLLVPSDLHSQTSAPVASKK AQTRERPDAGAPSLFFSRKWL GIARQLQEEDHD/VAEGGLAV CGHSGPPLPVDFHHLHQ RWDPSHLPRHVPLAPSRPLSL
7907	38275	A	7962	1519	1888	ILKHPTLDKELILTYLFIYLFIL RRNFTLVA*ARVQWCDLAPPQ PLSPGFKPFSCRFPSWDYRYA PPYLANFVFLVGTGF\SM LVRL VSNSRPQ/CDPPASASQSAGITG VNHHARITFNF
7908	38276	B	7963	280	1977	
7909	38277	A	7964	994	1651	CRGSQPAPPLTPHPNAPLGPSD LHSQTSAPVASKKAQTR\GDLM PEPPHCSSPGSGWGRGTDEYFIR KPPSDFLFPKPNRFQPELSAPDL RRFID/VSKPGCGPASGATGGV SSISYIARQLQEEDHD/VAEGG LAVCGHSGPPLPVDFHHLHQ RWDPRSSWSHVPLAPSRPLSL KTGGLRPGPLPVEVREFGDTV KPYPSLPLNSFTRNLGLLFRSG

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7910	38278	A	7965	10	533	DEVSLCCQAGVQLHDVGS LQT ASQVQAILLPQPPEVAEISGACH HACLIFVFLVEMGFHHIGQAGL KLPTSGDLPASASQSAGITGVS HRARPASSYLFFF*DEVSLCCQ AGVQLHDVGS LQ\LPFRFKRFS C\PASRSS*DFRRLPPRLPNFCIF/ M*RWGFTILARLVNSRPQ/CD LPASASQSAGITGVSHRARPASS Y/CIFFLRWRLTIAQAGV**CNL SSLQPPTPGFKWVSCLSLPSSW DYRSLPPLPANFCIFSRDGVSLC SLSWSRTPDFK
7911	38279	C	7966	312	467	
7912	38280	A	7967	31	678	TGLYFLFLFCLRRSLA/SVAQPG VQWRDLGSLQPAPGLRRFSFL SLQSSWEYRCPLRPADFLYF*S RRGFSTLVRLVNSRPQ/CDPPA SASQSAGITGVSHCAR\LFFSFE MEFRS\VAQAGVQWRDLDSLQ PLPPGALT*FSCLSLPRLGAA/WD YRRVPPCPAIFC/IFFFSRDRVS PCWSGWSQTPDPQVIRPPRSQ SAGITGVSHRARPSHIS
7913	38281	A	7968	23	99	YTMTGPGCWRPL*TGPHPHHT WPGGSSSHPQIPHRPPCVFG
7914	38282	A	7969	144	1239	ERTEPDH/TTTLT*P/ELPADTTA TVEDMLPSVTSVTNSDTITETF ATAQYILTSETTTLTSSIAPPAT ATPDSNSVPAGQATPSKGPSAS APSPAPASAPKVAPLVLDSDTP TSTPAASNLSVLANQGAVLS PSAPAGVGEASKAPPASKPTPA PVPTPTGAASPLAAAAAPATEA PQAKQEAPSTKGPDPPTQPGA AKSPAEEAATALASPKSEAAVS TTNPSQGEDFKMDEGNFKTPDI DLAKDVFAALGSPAPAAGASG QAPELAPSTADSSVPAPAKTE YGLSLSAVIGLCPVVS GWEDSG LPSIKWLLGLKVQEKGLNLSGK NTASGINLGLLEERTRSSDSVLL NYGCTLES LGCF
7915	38283	A	7970	3	375	ARQAMKSLHQCF LTLPRQAL EASSCNSTGWGEGTGKSG LQ RGP*NQCWEPSPAQQAFTSS* AVATAAGQGEELPLLPSTTP GKNTASGINLWLEERTRSSDS VLLNYGCTLKS LACF

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7916	38284	A	7971	1	2230	MFEASVGWFMRL EERTRLHDI QAQDEAVTADLEAAAGYPDLA KIIDEGGYTKQKQIFSVD DTA FS WKKMTLRTFIAKEGTNTDGAS SATSSLVSLCLEL CFLRAHHDV GFYCDLDVYQSAVYAPT CPTG YSLPQAKEESDFIPLEYEKGRIT STAGQGQDVEPEMEQLEKGSIK GVTETRTGPLGCSNYDNLD SVS SVLVQSPENKVQLLGLQVLLPE YLRERFVAAALS YITCSSEGEL VCKENDCWCKCSPTFPECNCPD ADIQAMEDSLLQIQDSWATHN RQFEES EEFQALLKRLPDDRFL NSTAISQFWAMDTSLQHRYQQ LGSWL*KVLF\KKTHRILRRLFN LCKRCHRQPRFRLPKERSLSYW WNRIQSLLYCGESTFPGT FLEQS HSCTCPYDQSSCQGPICALGE GPACAHCAPDNSTRCGSCNPG YVLAQGLCRPEVAESLENFLGL ETDLQDLELKYLLQKQDSRIEV HSIFISNDMRLGSWFDPSWRKR MLLTLKSNKYKPLVHVMLAL SLQICLTKNSTL\EPVMAIYVNP FGG\SHSES\WFMPV\NEGQFSL TWERTNVDA A A\Q\CQNW TM HLGGIRWKTFF\ETV\HVYLR SR IKSLDDSSNETIYYE PLEDDWIP LRNLG\YMKINTL\QVFGYSLPF DPD\AIRDLILQLDYPYTQGSQD SALLQLIELRDRVNQLSPPGKV
7917	38285	B	7972	62	232	
7918	38286	A	7973	3	258	KLSPPPPLPSPPLPRPGPA\GPP SRLPSP/PASASPQGV P*LGPA A AELPGIRSR*PQVA APEAETHP WCCC*RSSPQQQRISH

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7919	38287	A	7974	1	1048	MAHSQNSLELPININATQITTAY GHRALPKLKEELQSEDLQTRQK ALMALCDLMHDPECTYKAMNI GCMENLKALLKDSNSMVRIKT TEVLHITASHSVGRYAFLEHDI VLALSFLNDPSPVCRGNLYKA YMLVQVPRGAQEISKGLISL VWKLQVEVEEEEFQEFILDTLV LCLQEDATEALGSNVVLVLKQ KLLSANQNIRSKAARALLNVSI SREGKKQVCHFDVIPILVHLLK DPVEHVKSNAAGALMFATVIT EGKYAALEAQAIGLLELLHSP MTIARLNATK\ALTMLAEAPEG RKALQTHVPTFRAMEVETYEK PQVAEALQRAARIAISVIEFKP
7920	38288	A	7975	1	782	MAVTAAACWSLRPLARRDVCV GVALASPFVKPTHWFCKTLLEP CRPTGMGAQEISKGLISLWV KLQVEVEEEEFQEFILDTLVCL QEDATEALGSNVVLVLKQKLL SANQNIRSKAARALLNVSI SREGKKQVCHFDVIPNPWSHLLKD PVEHVKV*RCRLPLMFA\TVIT EG\KYAALEAQAIGLLELLHSP MTIARLNATKALTMLAEAPEG RKALQTHVPTFRAMEVETYEK PQVAEALQRAARIAISVIEFKP
7921	38289	A	7976	1	300	VEQTGRGE/RAYDIYSRLLRNA FLCVMGPIDDSVASLVIAQLLFL QSESNKKPIHMYINSPGGVVTA GLAIYDTMQYILNPICTLPRTVR MSPRWCRRSL
7922	38290	A	7977	2	470	RPPQRTLQNGLALQRCLHATAT RALPLIPIVVEQTGRGEASYDIY SRLLRERIVCVMGPIDDSVASL VIAQLLFLQSESNKKPIHMYI/N QPSGGARGQATDIAIAEEIMK LKKQLYNIYAKHTKQSLQVIES AMERDRYMSPMEAQEFGILDK

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7923	38291	A	7978	3	864	SCRYPALGPRLAAHFPAQRPPQ RRPRTACSLQRCLHA\TATRAL PLIPVVEQTGRGERAY\DIYSRL LRER\VCVMGPIDD\SVA\SLVI AQLLF\LQSR\SNMKPIHMYIN\S PGWVWV\TAGLGH\LTDTIAVTF LQPDFCTW\CSLGPGAASMGSL AFFAAGTPGMRHFAPQLPVFMI QPALQEGAGGQSPPD\AIQAEE NP*KL\KKQL\YNI*RQRTTQTRS LQGDRVPPMAEGTA*HEAPME GPQEFG\ILKTRFLVPPSPQDGE\ DEAPRLVQKEP\VEAAPAAEPV
7924	38292	B	7979	1	2088	
7925	38293	A	7980	412	812	FQSLFTCVLFHFKFSLTIHHMNS QPF*RIRSTFFFLKQSL/DSVTQA GVQWRDLGSLQPPPGFKQFSC LSLPSSWDYRRAPPHANFFYF F**QTG\FTHVGRMVPI*PRDPP ALASQSPGITGMSHCTRPRIR
7926	38294	A	7981	2	178	
7927	38295	C	7982	279	322	
7928	38296	A	7983	2	760	GVRSSGGGR\GRPGGGPRKARR GKAEDKE*MPVTKLGH\LVKDM KIKYLEDV/YFSLPIKESETIDFF LGSSLKEEGLKIMPVQKQTRAG QRTRFKAFVATGDYNGHVGLC VKCSKEVATAIRGSVILTKHSIV PVRRGY/WGNKMDK/PHTVPCCK VTGRCGSLVHLIVSAPVPKKL LMMAGIDDCHTSARGCTAT/LG NFAKATFDTISKTYSYLTLDLW KETIFTKSPYQEFTDHLVKHTHT RVSVQRTTRAPAVATT
7929	38297	B	7984	318	406	
7930	38298	C	7985	333	439	
7931	38299	A	7986	2	171	
7932	38300	A	7987	1	668	MGGLFWRSALRGLRCGPRAPG PSLLVRHSGTIMGVFVAVGTI PVPSRVPCIEADTLKPGGPSWT RERTLVAVKPDGVQRR\LVGDV IQRFERRGFTLVGMKMLQAPE SVLAEHYQ\DLRRKFPFPCSSR YMSSGPVVAMVWEGYNVVR SRAMIGHTDS\AEAAPG\TIKGV DFSVHISRNVIHASDS\VEGAQR RIQ\WLFQEQ*SWVSWA\D\GGQ HSSIHPA
7933	38301	A	7988	1	897	

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7934	38302	A	7989	1	142	MEYYAATKNDEVMSFV/GT/W MKLETIILSKLTQEQKTKHHMF SLISGS
7935	38303	A	7990	287	1086	EPWREMFISVYTLQKLGALFTI AKTWNQPKCPSMIDWIKKMW H/IYTM EYYAAIKKDEFMSFER TWMKLETIILSNLTQEQKTKHR MFSLSIGSRTMRIHGHREGNITC QGLLGECVHTVATRGSPSATE DESCRMNVNDYGGNSPSTLQV KTSPQGRAEKGNNVRTWLYSN LVCWPSLGSMLGKLRDRVIKR VIYTHTAGDVSMHEEGFQFPLK QVSLLLCAIAFQPSLVVAAALV HITMEAYTYLEVTLQIHSP LFC FLPKCHF
7936	38304	A	7991	1550	1835	DTISHQLEWQSLKSQETTALLTI AKTWNQPKCPSMIGWIKK\MW HIHTMEYYAAIKRNEFMSFAGT WMKLETIILSKLTQEQKTK\HH MFSLIRGS
7937	38305	A	7992	164	647	DLPVEPHIGKMILFEALVL/HCL DPVLTIAASLSFKDPFVIPLGKE KIADARRKELAKDTRSDHLTV VNAFEGWEEARRRGFRYEKDY CWEYFLSSNTLQIM/MKIIKAVI CAGLYPKVAKIRLNLGKKKK\K VKVYTKTDGLVAVHPKSVNVE QTDHFHYNWLI
7938	38306	A	7993	66	345	

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7939	38307	A	7994	1	2367	HRVTVISGETGCGKTTQVTQFI LDNYIERGKGSACRIVCTQPRRI SAHSSCGKSSCRKGQNLVASGN STGY\QIRLPESVAQGNRVLSYT VPTRNHPSSGSQSDPYLSSVSHI VLDEIHERNLQSDVLMTVVKD LLNFRSDLKVILMSATLNAEF SEYFGNCPMIHIPGFTFPVVEYL LEDVIEKIRYVPEQKEHRCQFK RGFMQGHVNSQEKEEKEAIYK ERWPDYVRELRRRYSASTVDVI EMMEDDKVDLNLIVALIRYIVL EEEDGAILVFLPGWDNISTLHD LLMSQVMFKSDKFLIPLHSLM PTVNQTQVFKRTPPGVRKIVIA TNIAETSITIDDVVYVIDGGKIK ETHFDTQNNISTMSAEWVSKA NAKQRKGRAG\RVQPGSLLFICI NGS*EASLLGWTIQLPEIFEE\PF WEGTLFTK*RFLRLGEIAYFLSR *MDPPSNPEVLLSIRHL\RLSNA LDKQEELTPLGS\HLARLPVEPH IGKMILF\GALFCCLDPVLTIAAS LKFQ\SPFVIPLGKEKIADARRK ELAKDTRSDHLTVVNAFEGWE EARRRGFRYEKD\FCWEYFLSS NTLQMLHNMKGQFAEHLLGA GFVSSRNPKDPESNINSNEKII KAVICAGLYPKVAKIRLNLGKK RKMVKVYTKTDGLVAVHPKS VNVEQTDHFYNWLIYHLKMR\ TSSIYLY\DCTEVSPYCLLFFG\G
7940	38308	A	7995	25	312	WLIYVITDARMYRQRGRYYFL VSSSLDKVLMISFLLGWRSSR RLRAFLVLHLRASPWAPRSFVR PVSAFSVGMCHMKTRVFENTF PFTLGHTVRYVGREIF/CRRVFT RYRESIKISLPTYLTVCPRVKGN VFSNTRVFMWHIPTLKADTGRT KLLGAQGEARRCKTKKARKRR EERLQPNKKEIITLSKEEETKK
7941	38309	A	7996	2	417	QQIRKLIKVGLIIHKPVIVHSQV GCQKSTFS/RTRKGRHMG TG*R KSTANFQMPEKVTWMRRMRIL HWLFGRYHESKKTDDHMYHSL YLKVQGNMFTNKQILMEHNHK LKADKAHKKFLADQAEARSSK TNKASKLREER
7942	38310	A	7997	3	124	KKRPELRDLLNQARKETL/ARK EDRSASSGAEGDVSSEREP

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7943	38311	A	7998	911	1497	SQRKARDQRRKRNRKRASSIAK HKEPKRPILPSGKNSQEGVATH TKPLAQGKVWLD/NETNEIPN ANFRQQIRKLIKDGILRHRKPV TVHSRAQGWKSTLARRKGRHL GIESKKIDRHMYHSLYLKLGKN VFKHKRILTEHSHKLKADKAR KKPLADQAEARGSKTKEARKL REEHLQTKKEEIIKTLSEQEAK
7944	38312	A	7999	34	279	EVIHAAIGEEKGSY/NA**PWVE EQLTRQPLIHHQPASLHVSRY/RC RYHSLYLKVGKGNVFNKRILM EHIHKLKADKARKKLLA
7945	38313	C	8000	351	530	
7946	38314	A	8001	356	921	WRATACTYPSWAPPRILVATGP AAVSAGLPSLHGTRAGPQAPCT AAVPPAPLPPHRPAS*G/MPAGP VQKGAPT/AAAAG*RLLKHGQS RRQGRGGAERTEGCQHAVTFQ DCFLRCFFG*C*CLSG/ERAIALE QGASHAAEQLPRLQAFKRPGPL /QVNPDAPOKSAASSSLKVLGS LPKHQRP RRFCQNTGS*SGP**T TGRRSAAGAA/GKPENPGSPPA PHNFKSGTNPAVTTHHPVGSKP RPEPHGNSEA
7947	38315	A	8002	495	653	MTLTSIDPVLTTFFNLECP/VFT ATASSGLGEVE*AIALN
7948	38316	A	8003	1	1433	MPESNCSLTWRHVSVGRAVAAQ GGEHSSQGASLVLGEPRGGSS WLLGLEGDTGLWGGLLKEGRL TDGKGKTIDCKDAIFIMTSNVA SDEIAQHALQLRQEALEMSRNR IAEN\LGDVQISDKITISKNFKEN VIRPILKVRGLSWHFLLEPKAHF RRDEFLGR\IGEIVYFLPFCHSEL IQLVNKELNFWA\KRAKQRHNI TLLWD\REVADVLVDG\YNVH YGARS\IKHEVER\RVVN\QLAA AL*SRTLLPAGGCTLRITVEDSD KQLKSPPELSPQAEKRLPKLR LEIIDKDSKTRRLDIRAPLHPEK GRLTDGKGKTIDCKDAIFIMTS NVASDEIAQHALQLRQEALEM SRNRIAENLGDVQISDKITISKN FKENVIRPILKVRGLSWHFLLEP KVLTTFFNLSVLYLHGNSIQRL GEVNKLAVLPRLRSLTLHGPN MEEKGYRRARGHSLHQIEK YICESDDIFRKYCINNQFL
7949	38317	A	8004	1	789	

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7950	38318	A	8005	1	409	LRLELSFCSSCLLEPPWS/TTVV CLYCRPATDFHPSGSGRVSAVL LIQ*G/RPLPLLIRLKACHCSHTA KCPGSSPSSMSPTAEEQKSGTA EERREGASEHGEEFGWGRLERS AVEWPNSRGRSSSHSIPFPAPRP
7951	38319	A	8006	1	1787	MSKGESRKCNEENVSKSSKVV KVFI VLT PQFLSRDKDQLTKEL QKHVKS VTVSCKSPRKLLSHIT RLHPPSKGQGENLTHLVDSIKA TIWCQPVWETVEGQRRRVGNC IDFTNGCDLVGSSSLHNMLVCS SYDINRQDTFQKDR TSEKHLDD SVFTALQDSAGQQWPARLHPQ RGEEVADPRGAPSRHIVEPENSS PCQGNGEQAGKAGARALCGQ ARRSPATMPPPLTTRSLCEFAVF LLHWLFPELFHYRKLGEQDSCY GDGGKQELDPQRLQIICNFTEV YFPHMQEEEA WRQAGPGPAEA AD/TSATSRRTSPTCRRRRPGC SGAPSASTTSFRAWGWTQA AK ASPPRDNCYNSSSLPDDISLFTH DNLHKQHSCSDSLGKKQLDPS CIKLIRH*VHLLYLCTKNNRVW TLEFMGNLHWNRRNGAPTSSS ARSTCWPRV*RHEELCNQS*EV QRGV*GSPAAPERSSKDFCKIPL DEVVVPH*/DFPVRSPYLLSDKE VCKIVQQLSVGNFAAGLL/LPP RTSSCSTTIFGL/DNKKQLDPTQ LRLICH*VEAVYPVEKVEEVWH CECIPSNDEQCHCPNRKKCNIL

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7952	38320	A	8007	1	1475	MAVDFSLAVLMIVSSYDINRQD TFQKDRITSEKHLLDSVFTALQD SAGQQWPARLHPQRGEEVADP RGAPSRHVEPENSSPCQNGEQ AGKAGARALCGQARRSPATMP PPLTTRSLCEFAVFLHWWLFP FHYRKLGEQDSCYGDGGKQEL DPQRLQIICNFTEVYFPHMQEEE AWRQAGPGPAEAD/TSATSRR STSPTCRRRRPGLQRCAQCIND KLQGLGLDAGSEGEPPTRQLLQ LLQPAR*HLSNQGCG* LQGRALFTHDNLHKQHS CSDSLGKKQLDPSCIKLIRH*VHLLYLCTKNNR VWTLFEMGNLHWNRNRGAPT SSSARSTCWPRV*RHEELCNQS *EVQRGV*GSPAAPERSSKDFC KIPLDEVVVP*/DFPVRSPYLL SDKEVCKIVQQSLSVGNFAAGL L/LPPRTSSCSTTIFGL/DNKKQL DPTQLRLICH*VEAVYPVEKVE EVWHCECIPSNDEQCHCPNRKK CNILKKAKKVEK
7953	38321	A	8008	1	3524	MCNNLIHLISLANNKITTINGLN KLPIKILCLSNQIEMITGLEDL KALQNLDLSHNQISSLQGLNH DLLEVINLEDNKIAELREIEYIK NLPILRVLNLENPIQEKSEYWF FVIFMLLRLTELDQKKIKVEEK VSAVNKYDPPPEVVAAQDHLT HVVNSVMQPQRIFDRYLLEIQR PEFRLVLKLVGNESLPIASADSL ALTSDMVRNGLGDLFYDFRAC HTTRPPYFGEGDRVDYHFISQD VFDEMVMNGKF
7954	38322	A	8009	258	719	MTPPSVLP*PSLSY*HPDYSLPF PFSPPVLCFPHVQGLYSVLFVN TAAEPREKSAMAILPLSGHACS HVCLGSHQSLFQRACGRCPRL SGSLRSHCHWLLILGVKKCSPP EAGKAILLTDRITETMNISWKP RNPSHTVPHPHICCHWRI
7955	38323	B	8010	1	1953	
7956	38324	A	8011	32	533	GRERPLLSPYMETLYRVFPLVL ECPNLKLLKPPWLHMPSAMTV YALVVVSFLITGGIYDVIVEP PSVGSMTDEHGHQRPVAFGL QSKMDNNINGKGLCIQAS*FTM GGFRFS*ILDPIECTKYPKTSIDS FFCSIGISSVVLLEFFPWARSNS MRNGNCPGLI

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7957	38325	A	8012	670	1052	TRRDSRCKGTWLLSVKTLAISA VKSQKSKASECRFTNRSSTAVI RVLLPGILLSSKLRCMVLATA LERDDSDVGVTISSINPQDSHFS CLLLLRISNSC*IC/CNFFAIRV HLAEVCI*QTSLLL
7958	38326	C	8013	40	186	
7959	38327	A	8014	1	1216	
7960	38328	B	8015	1	1032	
7961	38329	B	8016	1	1761	
7962	38330	A	8017	108	708	LTNQKKSRTTRRIHSRILPEVQGG AAADRHCPIRLGSLQDHRRS RLLSQWSP*KSTHD*HGFS\YQS AEDIRRLQQAEEFAGMNTSEL LQIANQAFVNRDAVSRKENHR DNERQAQRNTDLLAAAIRGVPP KROGKGGPGKETQPGCQSLQR NQCA YCKEIGHWKNKCPQLKR KPGDSEQEAPDKDEGALLNLA EGLLD
7963	38331	A	8018	1	512	LSRSSPLLPLVWHQAMVGSMD VEPAAWVLMTFCWDTPRQSGV PRERMPHTGTWRTVGIRCPKK KLRSANSSMMRGKVQFRP/DI QAYGAAPFEDLQVDFREMPKC GGNKYVLVLGR TYSGWVEAYP TRTEKTREVTPLLRDLIRFRP PLWIGSDNGPAFLAALVQKTA
7964	38332	A	8019	3	764	KQVLVNGDAVSREEKRKENER QARRNADLLVSCSNQSGPPKEA REELWTKDYRPGQDLRLLSQA TLTFHPTVPSPTLLGLLPAEDS WFTCLDLKDAFFPIRSAPESQK LFAFQWEDPESALAKTVRQRC VSCRQHHA\GKVQFRP/DIQAY GAAAFEDLQVDFTEMPECGGN KYL PVLGR TYSGWVETYPTRA EKAREVTRVLLRDLIPREL PFR IGSDNGPAFVADLLQKTATVLG ITRKLHAASRPQSSGK

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7965	38333	A	8020	19	1548	CIYGAQLCTGPSAPVWYCPLGT MAPTGLPGHPAVATATEPHRE RGSPL/IDSTVLVPPQDKHILRPP TVDKRGGEASGETPPLAARLRH KTGIQMPLREQQYTGIDEYGHV VERRVFGYQPFTSAHLLNWKS NTPSYTEKPQALIDLLQTHIQTH NPTRADCHQLLMFLFNTDERR RVLQAATKWLEEHAPTDYKNP QEDVRTQLLGTYPQWDPNERQ DMQRLNRYREALLEGLKRG AQ KATNINKVSEVIQRKEESPAQF YERLCEAYRMYTPFDPNPENQ CMINMALVIQSTEDIRRLKQKQ AGFARMNTSQLLEIANQVFVN RDAVSRKENQKENG GWPPCLR ALAATALLVQEANKLTLGQNL NIKASRAVVTLMNTKGHHWLT DARLTKYQTLLCENPRITTEVC NTLHPATLLPVSESPVEPDCVE VLDSVDSSRPDLRDQAWASVD WELYVDGSSFFNPQGERGAGY AVVTLDTVV EARS LPQATSAQ KAELVAFIRALELSE
7966	38334	A	8021	1	895	MDGAGICYLHQTNAGTEIQTPH VLTYKRELNENMWAHRGDN THWGPEGSTNSPASASGVADV SRVGS LQWVLGLADFKNEAKE LRLYKQEKREKAKRWKETEG FNGDYGVMTMPGKWR TYFEID WSKLEVGWPSEGNLERSLVSK VWHKVTGKSGHSDQFPYIATW LQLVLDPPQWLRGQAAAVLVA KGQIPRKDPTPPGRGKSTPEVL FDPTSEDPLQEME/PSDPGALP LPGKDAPHS*AHSPCASTRQTY P*ATRSRQERR*SLERNPYIGSS FKTQNWD TNAPERAVVYWDR

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7967	38335	A	8022	1	1959	MLKNFKKGFNGDYGVMTMPG KLRTLCEIDWPTLEVGPSEGS LDRSLVSKVWHKVTGKSGHSD QFPYIDTWLPQWVRGQAAAVL VAKGQIVKEGSRSTHRGKSTPE VLFDPTSDDPLQEMAKVIPVVP SPYQGERLPTFESTVLVPPQDK HIPRPPRVDKRGGEASGETPPL AARLRPKTGQMPLREQRYTGI DEDGHMAERRVFVCQPFTSAD LLNWKNNTPSCTEKQALIDLL QTHQTHNPTWADCHQLLMFLF NTDERRRVLQAATKWLGEHAP ADYQNPQEYGKEESPAQFYER LCEAYHMYTPFDPDSPENQRM NMAVSQSAEDIRRLKQKQAG FAGMNTSQLLEIANQVFNDR AVSHTGAEHSVVTGPVAPLSK KTIDIIGAMGVSAKQAFCLPRT CTPGTKDYRLVQDLRLVNQAT VTLHPTVPNPYILLGLLPAEDS WFTCLDLKDAFFSIRLAPERQK LFAFQWEDPESGVTQTWTW LPQGFKNSPTIFGEALARDLQK FPTRDLGCVLLQYVDDLLGH TAVGCAKRTDALLRHLEDCGY KVSKKKAQICQQQVRYLGFTI RQAERTLGSGRKQVICNLPEPK TRRQVREFLGAAGFCRLWIPNF AVLAKPLYEVTK*GDREPF EW
7968	38336	A	8023	2	367	
7969	38337	A	8024	3	687	GRRQRRSKVTSTWWQARESS CRGTLLYKTIRSCDTYSLSQEQ HGPNLH\LIGVPESDGQNGTKL ENTLQDIIQENFPNLARQANI QEIQRMPQRYSSRRATPRHII VRFTKVEMKEKMLRAAREKGR VTHKGKPIRLPADLLVETLQAR REWGPIFNILKEKNFQPRISYP AKLSFISEGEIKYFTDKQMLRDF VTT RPALQELLKEALNMERNN WYQPLQNHAKL
7970	38338	A	8025	1	993	

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7971	38339	A	8026	1	842	MAEQEQLQSAVPSPLLVIPRQK GSGVDFQQSPTDLQLRDLTDRR KTNKQKGIASLTlKRTSTPKPH LYVTNIKDQRPNPRLIGVPESD GEKGTKLENTLQDIIQENFPNL ARQANIQIREIQRTPQRYSSRA TP\RHlLVRFTKVEMK\EKILRA A\REKGR\VTHKGKPIRLTTADL SAETSTSQKTEWGPiFNIL\KEK NF\QPRIS\YPAK\LSFFISEGEIK\ YFTDKQMLRDFCHHQTCPL*KS TRPALKELLERKHLNM/EKGN WYQPLQ\NHAQICKDH
7972	38340	C	8027	320	433	
7973	38341	A	8028	9	189	
7974	38342	A	8029	26	738	VAASSFDTCADHLCALHLLQV LHYLAIQKPADLARHLLPCVIH AAVLKVKEESLENISSVKKI QIISHSSKVLHFPNPEDKKLEEII HQITNVEALIARARSLKAKFGT EKCEQEEKEDLERFVSCLEEQ PEVLVTGAGRGHAGRIHKLfV NAQNVA\AMTP\EEELKRMGS PEER\RQNS\VSDFPAPPAGREFIL RTTVPRPAPYSKALPQRMYSVL TKEDFRLAVKIIDGDV
7975	38343	A	8030	3	2961	MAADSEPESEVFEITDFTTASE WERFISKVEEVLNDWKLIGNSL GKPLEKGIFTSGTWEEKSDEISF ADFKFSVTHHYLVQESTDKEG KDELLEDVVPQSMQDLLGMNN DFPPRAHCLVRWYGLREFVIA PAAHSDAVLSESKCNLLSSVSI ALGNTGCQVPLFVQIHhKWRR MYVGECQGPVVRTDFEMVHLR KVPNQYTHLSGLLDIFKSKIGCP LTPLPPVSIARFTYVLQDWQQ YFWPQQPPDIALV

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7976	38344	A	8031	1	1688	MREKPCQSNCEGKAFNYSSLLR RHHITHSREREYKCDVCGKIFN QKQYIVYHHRCHTGEKTYKCN ECGKTFTQMSSLVCHRRRLHTGE KPYKCNECGKTFSEKSSLRCHR RLHTGEKPYKCNECGKTFGRN SALVIHKAHTGEKPYKCNECG KTFSQKSSLQCHHILHTGEKPY KCEECDNVYIRSHLERHRKIH TGEGSYKCKVCDKVFRSDSYL AEHQRVHTGEKPYKCNKCGRS FSRKSSLQYHHTLHTGEKPYTC NECGKVFSSRRENLARHRLHA GEKPYKCEECDKVFSRRSHLER HRRHTGEKPYKCKVCDKAFRS DSCLANHTESSILGEKPYKCY\K CCGGFLIQKGLPQHQRVHTGE KPYECNECGKVFNQKASLAKH QRVHTAKKPYKCNDGKPLPD QSTLFHHQSNPIGVGKRYQCN DCHKVFSNATTIANHYRIHIEE/ KIYKCNKCGKFFRRHS*LVVHQ *THTGEKPYKYHDCDKVFSQA SSYAKHRIHTGEKPHKCDDCG KAFTSCSHLIRHQRIHTGQMPY KCKGGKVFTLWSFHAHQKIH
7977	38345	A	8032	25	1091	IHIYSDSCSLSLQDSGDEKEFNL DDNVSFRAFLWDLAAGPGQGG GGGREKWRAVISRTMNRKMG KMMVKALSEEMVRPADIGDGV SRGPGDRSGRM*AEKMALAFS EQEEHELPVLSRQASTGE*GMR GTPAESGGKDWVTAVLVAGPF CGRARVHTDFTSPYDHDSLKL QVRSASGLLWSLAGCAQKGSW TEPVGSFKFIYVDVLPEEAVGH ARPSRRQSKGKRPKPKTLHELL ERIGLEV*AWSSLVSSIREAQLP QGWGPGHLNELNIMDPQHRAK LLTAAELLLDYDSEWL*ERPGE GAESSQEPG\GEACPKVDIPRDS GCFEGSESGRDDAELAGTEEQ QGLSLAGAP
7978	38346	A	8033	35	437	
7979	38347	A	8034	1	1845	
7980	38348	A	8035	1	212	
7981	38349	A	8036	371	915	
7982	38350	A	8037	1	2460	
7983	38351	B	8038	10	1510	

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7984	38352	A	8039	1	188	SASTTLWGLLIFLIHRLGTALRA VSSWGTHLTAKEVQWGH/DCG THWSYHHLHQPRAAGHKEC
7985	38353	A	8040	3	2332	FFFMWDPQH/TFI/VLPQGYYN SPGLYSTVLRDLENLDIL*NIK LYFIDNIMLTGMDE*EEDGTLE ALVKHLLSRGVKINKPYRDSEV ATAVK/FLQV*WLGASRGVPS NVKDKLLHLC\PCCKGREAHCL G*ALF*VS*HHIPTCKVVSGFDP HF*VT*EECPAFEWSL/QQERTL QQIPGHGAVTILQDPLVLKVPV GGVRFGVELNQAPVGESQWKG LGIWSKAMSSTAQKYAP/FQSR EICWKQLLACY/W*ALI/EIECLT MGHKTTM*FQ\MPLRN*HLCNS *SHTLDMPQQHPIMRWKSFL*/ D*A*IPMLTSPRKHPNLKWP*TT KQKH/WKL/GQPSPWVSPGRVG WVHKWSKHSGRD/GGYLWVQ QY*LPPTKVDPTATSKCPTHQ HLNPMIFP/R*GSISLGDQDPK* GVDYIALFPS*KGQRFMFTGIGT YSIVGFSCRVVIPSVSTTFWGLL IFVIHRLGTASPCS\SSWGTHLT AKEVQWGH/DCGTHWSYHHL HQPRAAGP*RMLKRASIGTAQR QLAGST/LCGWEGAIFQDMVHF KNQRHLYSSVISVGRTRGSRYQ GVEVDVAPYPIPSTHLSWDFAL LSQNHHSAG*KVLDSKGGYP*K ETNECPLNYTLQLP/PGE/FGQY VSRDQVRVRGVPSSTPGT\VIDPD PQEEAWLLSHN/GG*EEFVWNP /GDPLGGLLV/LPCPIVSRRIVQ
7986	38354	A	8041	1	1296	

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7987	38355	A	8042	498	2219	KSVKTST*DTLRTKAKTGQGHI TGLQPWLGLRIRQEP/SAKTEK KAAIQAKAGAEREATGVVRPV AKTRAKAKAKTGSKTDAVAE MKAVSKNKVVAETKEGALSEP KTLGKAMGDFTPKAGNESTSST CKNEAGTDAFWWAGEEATINS WFWNGEEAGNSFSTKNDKPEI GAQVCAEELEPAAGADCKPRS GAEEEEENVIGNWFWEGDDT SFDPNPKPVSRIKVPQPVYEINE KNRPKDWSEVTIWPNAVTP AVLGFRSQAPSEASP/LFIYCSG LR*RKCLFFACGNSLPPF*E\PRS CSQPIECRFDSDCIQTIDEIRR QIRIREVNGIKPFACPCCKMECY MDSEEFELVSLKSTTDPLIHK IARIAMGVHNVHPFAQEFINEV GVVTLIESLLSFSPPEMRKKTVI TLNPPSGDERQRKIELHVKHMC KETMSFPLNSPGQQSGLKILGQ LTDDFVHHYIVANYFSELFHLL SSGNCKTRNLVLKLLLNMSNP TAARDMINMKALAALKLIFNQ KEAKANLVSGVAIFINIKHIRK GSIVVVDHLSYNTLMAIFREVK
7988	38356	A	8043	1	453	MEKLDELKIKIDNINGALICARH FSKCSSNAQSHLCPYLQAFPGG PG/VRGLPGWPGRTGSRELGHG WRGCG/EGLVSGCQTMLSGA\P AGSPQ\PTGGTRAHAVRGRP*V PARSQGSRLARPQGED*GAAP\ DFDPGAAGVPGVPALQEAAQI
7989	38357	A	8044	3	690	SLSLPSSWDYRRAPPRPANFVF LVETGFTMLTTIVLIS*PHHPA SASQNAGIV/GVSHSPRPGIACLI TRLDF/HQGTQSRVPALGSS*PIP HARPRGHTLKALPYRLYTQTA RGFGQPRVRIPLLSLLGSLKPSE LRGQVGHAFASAI FASAILCVF TLLVEGKLKPPGASVRRCLQSN RDLGFRA TFP TSHRGHGALGLN YISQRATGTPNLWLPFRFRVVL LQAACG
7990	38358	A	8045	106	299	
7991	38359	A	8046	306	445	
7992	38360	C	8047	570	926	

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7993	38361	A	8048	47	988	ASRPGSRVSLMFGAAGRQPDRS SSSPGTSWPFVPEPMEELVHDL VSALERELQSKPRGGFAEPGDP FSEVY/PCPLKRPARKRRGRKR RFV*CASPVGGLVTA*SEGSDS SFRRTKSKKRKLKIRQGPKIQD EGVLESEETNQTNKDKMECE EQKVSDELMSES DSSSLSTDA GLFTNDEGRQGDDEQSDWFYE KESGGACGITGVVPWWEKEDP TELDKNVPDPVFESILTG SFPLM SHPSRRGFPTKTQSAFMECLQRI LKNLEGLQLQWYPFLAQWVTR EWFIFPRILITMTIGLALGLGQS MTSISF
7994	38362	A	8049	3	476	LTRPVD*RPGTIHLGRGVRARP ANRRRQRARRGAAISPPGPCSV AGFLRGRLG/PEPGDNGQHLGE PWLGCGLFA*RA*CSRSTRCT* RRRAPGDRELPRAPATWAPPIK LVPRVFSSKVGQGVSGLVEAM CLGQDSILNQSNKHNSVASSNT ITVIG
7995	38363	A	8050	2	143	
7996	38364	A	8051	1	161	
7997	38365	A	8052	3	1189	ESPLLGHSSSDAARRRSVSSFP VPQDNVDAHPSGSGKEVRVPAT ALCVFDAHDGEVNAVQFSPGS RLLATGGMDRRVKLWEVFGEK CEFKGSLSGSNAGITSIEFDSAG SYLLAASNDFASRIWTVDDYRL RHTLTGHSGKVLSAKFLLDNA RIVSGSHDRTLKLWDLRSKVC KTVFAGSSCNDIVCTEQCVMSG HFDKKIRFWDIRSESIVREMELL GKITALDLNPERTELLSCSRDDL LKVIDLRTNAIKQTF SAPGFKC GSDWTRVVFPDGSYVAAGSC *RALLYIW\DLVTGKVEKVLSK A\HSSSHQCGWPWSPSWARTF VSVDKGCKAVLWGTVLTGLSG LGGPQCPPEEAHGLLPWSW QVNVLGYSMDLPEKLLKANVGH

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7998	38366	A	8053	116	921	LSKSNRCW*GCEEKGTLIHCW WEC/KFNPLLKAI*RFLKELKVE LPLDPAIPSLGLSKIGTGKKVW QRLPNCPTISLFSFFHKNRHTGT YRRRFLDSLAVRCPCNPATFGS KSDVCNFWVMPSTGKKCALPS HPLFPNGLNADVCLSDSENLS QKILLILEVSDSVILGKLSHKNI QHDCIEEPLTLRNTQQFRFLCI ACHGCTSQYSTFLVKASWTRS QGLIQRQPSAGSGYPEKLFSEG AGDEGVDLLPLLAKPASPEQL
7999	38367	A	8054	35	422	SCSEVTEASWGSVPELRDAQLG VGLHSPTYRHPHRETLTCCPAG TLQAWPFCGRIRVRVPVSWLGE PGRGLIPGSGSAASSECLPGLHG RAPLGTSCRPGRPLP/WNQPPPR LAQPGHRDPDADAATERPGLQ RPSRTACERFPMGVSVRRRVEA HSQLGVPELRD
8000	38368	A	8055	3	277	GPPRPPA*RGHGGRPENT\PA RWPPPP\PRSPAPLPPRRACADV THPPVPTPGKRTPPPIGGAPAAR AAPRRPAPSCFSAPTGCSLTTG
8001	38369	A	8056	3	179	PPPHPQGPPPPGRPPGC*RPI/QG RQVFSMKPGRTPERTAWS/PPY PGCLGSRPRRPSAPA*SGAHCV VAPYPGCLGSRPRRPSAPA
8002	38370	A	8057	3246	4682	ENTLSFASFFFFFEMLSLCRPGW SAAAPCQLTAASTYWVKRFSC LRLPSSWDYRRAPQHPANSFCI FSRDRAL/TMLVRLVSNS*PQVI RLPQPPKVLGL*ACCGFCSGSS GMAPGCGRVVS HAGAPGGGTR PP
8003	38371	A	8058	3	718	LTRLVLSPDAPD/RATHLIAA/R AGTEKVLQ/AQE/CGHFHVNP DWLWSCLERWDKIEEQLFPLR DDHTKAQRENSPTPLPDREGIPP TALSHMPILPKAQSPSEVRIYD SNTGKLIRTGARGPPAPSSSLPI RQEPSSF/RVDDILGEGSDSDS EKRRPEEQEEEPQPRKPGTRRA RTLGA PASSERSAAG/SRG/PRG HKRKLNEEDAASESSRESGNEY EGSSSEADEMAKALEAELNDL
8004	38372	A	8059	273	468	NVKGTAANGD*G*RGEAAPA\G RSRARVPEDAASESSRESSNED EGSSSEADEMAKALEAELNDL M

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8005	38373	A	8060	1	2886	MEVPAAGRVP AEGAPTA A VAE VRCPGPAPLRLLLEWRVAAGAA VRIGSVLAVFEAAASAQSAGAS QSRVASGGCVRPARPERRLRSE RAGVVRELCAQPGQVVAPGAV LVRLEGCSHPVVMKGLCAECG QDLTQLQSKNGKQQVPLSTAT VSMVHSVPELMVSSEQAEQLG REDQQRLHRNRKLVLMVDLDQ TLIHTTEQHCQMSNKGIFHFQ LGRGEPMLHTRLRPHCKDFLEK IAKLYELHVFTFGSRLYAHT
8006	38374	A	8061	2	680	
8007	38375	A	8062	658	1657	PGILSLRNALLTGVDCKVVVPV PPGHTHPQLRLFHFHPKTCGW GEWGDHGVVWAGPAPA\YHL HRDVQALWTNDHALAWP*AM TSERTLWPGHELSARPGRSWRI SCPTGLAPQGGDDRTRGHWVTA TCCSADGLRLCRYGD\GVRGGL PTVAWP*LTGSCSLRYGSGQQC CYTADGTQLLTADSSGGSTPDR GHDWGAPPFRTPPRVPSMSHW LYDVLSFYCCCLWAAPDPGKD RAGLGCTPT*PSTLTLASAFGDP HFVTFDGTNFTFNGRGEYVGM G*NQGGRLPSGSRSAPTTAGT ETRGTLTAVAVQEGNSDVVE VRLANRTGPER
8008	38376	A	8063	873	1791	RCAGCPHSSSFFERGQ*AAVGP CCHGGTYRKASSV*RVSV*HPP HDRGSRK/QSLSGR*STGLS*MP SGVASSASV*FVNVFSLSSSN*L AQSTARFPFGSVRGLGQGRAG GG*APGHGADHPTGRQHS*GSP APVTWLWWPPRHQAALAPAP STTPYDNSPLHCRPSGPSQSSHP HSALPGT/SVPGSSPLEIVPGSSL YVS*SLIRALAAPISSSSVGKNC RCTERLAIKPAAESCRTRSSSAG QSVFSRFTSL*AFTG*AR*PSAS AADLLVKASILLAQLLILESLAS STRMYSFRDCTSSFSA

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8009	38377	A	8064	2	935	YSPARGSGRGDLRRPGARRA GQGPQVGAPKPGGA EYVRWA AGGMKGAGSSGSGSGSRE AG*PGVPRGRRGWRTPAEPPG WGPGRRQACGA*G/EGRAAAQ VGGAPAAAGGGVAREEAPS*P GDAAGGSGTPGAASVQVSAPP AQPQINLSAGARAGVARRCVCP RGAE*GPGDPGPGSRR*PPAA QSGPPPCPSALFLHPSGFLCRRP QPSRAQGGEVSGALRAVPRLSG GAGNLAALPCQLPGSGGLTPGC /QASQGLGVLGLVRAGPAWSPL DGPLDQKVFSPQTS LWNQRCFS LAAAGPVIIR
8010	38378	A	8065	3	367	
8011	38379	A	8066	2	1246	TPAWSREILAEELCTPPDPGA AF VVVECPDESFIQPICENATFQRY QGKADAPVALVVHMAPASVL VDSRYQQWMERFGPDTQHLVL NENCASVHNLRS HKIQTQLNLI HPDIFP/AAHQFPL*EGGPHQC AHGSG*MPPQVPAPFQE/WSAR GMPLLLAILRNS*LRRCSFPTSS RALQEYRRSAQDGPAPAEKRS QYPEIIFLGTGSAIPMKIR\NVSA TLVK\QSPDTSLLDCGEGTFGQ LCRHYGDQVDRVLGTLAAV FV SHLHADHHTGLPSILLQRERAL ASLGKPLHPLL VVAPNQLKAW LQQYHNQCQEV LHHISMIPAKL PSGRWLRSPVLQWKD*FSSLLR TWIWE EFQTCLVRHCKHAFGC ALVHTSGL\KV VYSGDTMPCEA LVRMGKDATRQADELISFQG
8012	38380	A	8067	121	880	GAAASQLPAVPQVPVGGPAPH QYDSCQMPSGRG*DLQSCSGKI DQFA/AWTTCDLEEFQTCLVRH CKHAFGCALVHTSGWKVVYSG DTMPCE\LLVRMGKDATLLIHE ATL\EDGFRKREA\LEKTHSTS QGHSAWGMRMNAEFHY/VLN HFQARRY\SKVPLFSPNFSEKVG VAFDHMKVCFGDFPTMPKLIPP LKALFAGDIEEM\ EERREKREL R AGAGRPSCSRGAGRRPLEDGEP QQKRAHTEEPQAKKVRAQ

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8013	38381	A	8068	1	607	SPGSWETRLWVWSFYRSCCKHS LCPCLVGEFLVFNSPMQSGSAG EPPRLQF/GAPLPGAAPGNYYRT GRGREGPWPPPLAPSLFAFSDL GSSPGRTSWRPPAVSRRLGPTFP PPAPGRGRPRRAA*TGPSAQ/PP RSLSTLSPAPAAPVRTAPPVAS PRAAPAPLRAITLLATKSEELPV VSFFSSRLVLAKRPKRLAQMH WGH
8014	38382	A	8069	1	290	QFLDAESGSAGEPPR/LAVPAPF PGGAPGNYGRTGRGREERSWP PPLAPSLFALSDFGSSPGRTSRR PLAVSRRLGPTFPPLPPAPGR GRPRAAP
8015	38383	A	8070	1	565	SPGSWETRLWVWSFYRSCCKHS LCPCLVGEFLVFNSPMQSGSAG EPPRLQF/GAPLPGAAPGNYYRT GRGREGPWPPPLAPSLFAFSDL GSSPGRTSWRPPAVSRRLGPTFP PPAPGRGRPRRAA*TGPSAQ/PP RSLSTLSPAPAAPVRTAPPVAS PRAAPAPLRAITLLATKSEELPV VSFFSSRLVLA
8016	38384	B	8071	475	913	
8017	38385	A	8072	145	275	
8018	38386	A	8073	1	310	VEELTARTGGGAPPGCQADAK RMPQFPQRTPWGHGFAGAPFP ISKPHGPPAGQL*PG/PSCEQT/E PPSPVNTVTVTHLRANSATVSW DVPEGNIVIGYSISQV
8019	38387	A	8074	1	483	GSHRVGRWAALCDRAAPRGLT NRETGGGAPPGCQADAKRMPQ FPSQRTPRGHGFAGAPFPISKPH GPPAGQL*PG/PSCEQT/EPPSPV NVTVTVTHLRANSATVSWDVPEG NIVIGYSISQQRQNGPGQVRVIRE VNTTTRACALWGLAEDSDYTV QVRSIGLRL

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8020	38388	A	8075	2	854	RPPAARARRWLPKPSPARRSRR PAHRCSSRRRTCTPQATRP GMR *APAAACGPTGRRS/RLPALKI. ALEYIVPCMNKHGICVVDDFLG KETGQQIGDEVRLHDTGKFT DGQLVSQKSDSSKDIRGDKITW IEGKEPGCETIGLLMSSMDDLIR HCNGKLGSYKINGRTKAMVAC YPGNGTGYVRHVDNPNGDGRC VTCIYYLNKDWDAAK VSGGILRI FPEGKAQFADIEPKFDRLLFFW SDRRNPHEVQPAYATRYAITV WYFDADERARAKVKY/RNR*K RCEG
8021	38389	B	8076	1	205	
8022	38390	B	8077	1	806	
8023	38391	A	8078	1	2279	MKVGLDQIIEVVP SHSVTSGAA AGECGGVHCD SVCAEGRWGP N CSLPCYCKNGASCSPDDGICEC APGFRGTTTCQRICSPGFYGHRC SQTCPQCVHSSGPCHHITGLCD CLPGFTGALCNEA YSQ/SCPSGR FGKNCAGICTCTNNGTCNPIDR SCQCYPGWIGSDCSQPHCADKC VHGRCIAPNTCQCEPGWGGTN CSSVKKQSTVCES*KCEPWEER PCGGLHWDIAG*/P/GKHGGYL NELGAFGLDRSYM GKSLKDLG KNSEYNSSNCSLSSSEN PYATIK /GPTCTYPEKL RVWLCGDEIAG TKRFPICRDQ*LNFSQQECL*S* TYSECCPRSIQQ*WASFP GSI*PP KNSHIPCHYDLLPVRDSSSSLK QEDSGGSSSNSSSSSE*/APKDR LGLLV**RS*SM*TNRLAKHPK QPGRKGPKI**HGTWKSSQEK/ HAEEQSGKLAATLCGKD WLIQ REGWPYILSRMFL/CFISTD GRE SESLWRKSNGNSKFKF*WGRPG KCGL*EGQREEVWGLGNSLYC LAGQL*CLDCECHH/GFQECCP VLGHSWGYKS/CLNRNPLKGLS SRCAGLA VRDSLAPNSQGWKA TFDFPSLECPSTYGYGCRQICD CLNNSTCDHITGTCYCSPGWKG ARCDQA/GCYHSWKSEQLKPN QYCSPC*FLPDRGHCRHHHSCP SCSLPTGIVHYL*TQAEKGKIKH
8024	38392	B	8079	1	2909	

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8025	38393	A	8080	332	602	NSLNSRWLKGLPAGPIQEIKE MWRCMSSICQKEGWRMTAGS LGHHRSLHVGQ/AGNDVDRT GSLPASVR/QHAYYTASSVEGR VSYKLYT
8026	38394	A	8081	2	422	FNISLGFACPLRIDFFGWFFFVFF LSWSFTLFAQAGVLWCDLGSL QPPPLGFK\KFSCLSLPSSLDYRC LPPRLTNF*FLVEMGFHHVGQ AGLELLTSGDPPASASQSAGITG MSHRAQSAALSFK*SGISKTRY FIFWA
8027	38395	A	8082	1	951	
8028	38396	A	8083	1	924	
8029	38397	C	8084	271	738	
8030	38398	A	8085	1	575	
8031	38399	A	8086	2	332	
8032	38400	A	8087	1	897	
8033	38401	C	8088	181	804	
8034	38402	A	8089	1	1923	
8035	38403	A	8090	294	2340	EKCRHNCSSRVWQSLVSQSVW ATEGQYGRTKNARPVQVK\DS ASFPYQRRYPLRLEAQQGLQKI VKDLKAQGLVKPFNSPCNTPIIL GVQKPNGQWKLVDLRIINEAI VPLYPAVPNPYTLLSQIPEEAE WFTVLDLKDFFCIPVHRESQF LFAFEDPSNPTSQLTWTVLPQG FRNSPHLFGQALAQDLSQFSYL NTLVRLYDDLLAAHLETLCHE QATQKKTGIALGVLTQVQGTSF QPVAHLSKEIDVVAKGWPHCL WVVAAVAVLVSEAVKIIQGRE LTVWTS HDVSGTLTAKGDLWL SDNLLLNQALLFKRPVLRHTC ATLNPAFLPNNKEKIEHNHQQ VIVQTYTIQGDLLLEVPLTDPDL NLYTNGSSFVEKGLRKAGIHPS RQWTPLPWKAGPEMLSKRQVL ESGILKAFLVPYLLVAVLGSIDF NGKPPVAVFSLSQAHRLCAT WLLGYGEVWIHSHTAIKTYQ RRRSQDGRIGTAPVYSSQRERR RRRVISAFPSEGIPTDLQLRVLS VRRKTNKQKGHPHQKPICTSPS SRPKVDKTTKMGKKQNRKTGN SKTQSASPPPKERSSSPATEQSW MENDFDELREEGFRRSNYSELR EDIQTKGKEVENFEKNLEECITR ITNTEKCLKELMELKTKARELR EECRSLRSQCDQLEERVSAMED

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8036	38404	A	8091	158	865	NPAARTPFFVIKKGKRGEGCL AKAGAIHNLNIG/GTPVCCPLLE EGINLEDWATEGQYGRAKNAR PVQVKLKDSASFPHQRQYPLRP EAQQGLQKIKDLKAQGLVKAC NSPYNNPTLGVQKPSGQWRLV QDLRIINEVTVPLYLAVPNPYIL LSQIPEEAEWFTDLDLKDAFFCI PVHPDSQFLFAFEDPSNPMSQL TWTVSPQGFRDSPHLFGQALA QDLSRFSYLGTLVLWYVD
8037	38405	A	8092	1	748	MNQSDQEMTGAFVHMKSYTG LISGVAVKMERHIYQDRRIAIEK EFNSCRTGCMGDWSFTITQIRL LENTGIRVFKDNLVEEAEWFTV LDLMDAFFCIPVHPDSQFLFAFE DPSNPASQLTWTVLPQRFKNSP HLFGQALAQDLSQFSYLDLTLVL RYMDDLALLAAYSETLCHQATE ALLNFLATCGYKVSKPKAQLCS QQVKYLGLKLSKGTRDLTTFLP VNEEKIE/P*LSTSNCSKLRCRSG TSRGS LG
8038	38406	A	8093	194	1377	NPAAQTPFFVVKKGKRGAGL LHRQYPLRLEAKQGLKKIVKDL KAQGLVTPCSPCNTPTLAVQK PNGQWRLVQDLRIINEAVVPLY PAVPNPYILLSQIPEEAEWFTVL DLKDAFFCIPVHPDSQFLFAFED PSNPMSQLTWTVLPQGFRDSLH LFGQALAQDLSQFSYLDLTLVLQ YMDDL L LVTHSETLCHQATQV LLNFLATCGYKVSKLKAQICSQ QVKYLGLKLSKGTRALSEERIQ PILAYHPKTRKQLRGLLGITGF CQIWIPRYSEIARPLHTLIKKQT KANTHLVRWTPEAEAAFQVLK KALTQAPVLSLPTGQDF\SLYVT EKTGIALGVLTQHYGEERNS*L PTEYLSNIRKPLGDYYWLYRNL KRWQSYTARVIRKERKKGK
8039	38407	A	8094	3	521	

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8040	38408	A	8095	1	3203	DSPLSTKAMLGMLVKDHWSPA AQTPFFVIKEGGKRGAGLLHGQ LILKDKFITQSAADIKEKLQKST LGPERNLKTLLNLATSVFYNRD QEEQAERDKRGKKKATTLVMA LGQADFGGSGTRKAWANRMP NRAYFQCGLQGHFKKDCPSRK PQVCLTIESQEVNCLLDAGAAF SVLLSCPGQLSSRSVTIRGVLGQ PVTRYFFQPLSCDWGALPFSHA FLIMPESLTPLLEREILVKAGAI HLNIGEGTPICRLL
8041	38409	A	8096	13	183	VHLHPQGHVPVKHTPTGLGYS SCRHLLGRACY*KGEVGAKA GMQVSDALPRLGGVS
8042	38410	A	8097	1	2427	MSKFSCASLTATESDGTPLMEQ YVPCPVCETAWAQHTDPSEKS EDVQYFDMEDCVLTAIERDFIS CPRHPDLPVPLQELVPELFMTD FPARLFLENSKLEHSEDEGSVL GQGGSGTVIYRARYQGQPVAV KRFHIKKFKNFANVPADTMLR HLRATDAMKNFSEFRQEASML HALQHPCIVALIGISIHPLCFALE LAPLSSLNTVLSNARDSSFIPL GHMLTQKIA YQIASGLAYLHK KNIIFCDLKSDNILVWSLDVKE HINIKLSDYGISRQSFHEGALGV EGTPGYQAPEIRPRIVYDEKVD MFSYGMVLYELLSGQRPALGH HQLQIAKKLSKGIRPVLGQPEE VQFRRI.QALMMECWDTKPEK RPLALSVVSQMK/APDFCHLHV *TVLWEADSLLLIPGPGVHRGV LGWKRGVQELHGG\NTEKGLM EVQRMCCPGMKVSCQLQVQRS LWTATEDQKIYITLKGMCPLN TPQQALDTPAVVTCFLAVPVIK KNSYLVLAGLADGLVAVFPVV RGTPKDSCSYLCSHTANRSKFSI ADEDARQNPYPVKAMEVVNSG SEVWYSNGPGLLVIDCASLEIC RRLEPYMAPSMVTSVVCSSSEGR GEEVVWCLDDKANSLVMYHS TTYQLCARYFCGVPSPLRDMFP VRPLDTEPPAASHTANPKVPEG DSIADV SIMYSEELGTQILIHQE
8043	38411	A	8098	1	1641	

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8044	38412	A	8099	1	1075	VLHKFPYRMVPALPPKRMLGA DREFIEARRRALKRFVNLVARH PLFSEDVVLKLFSLFSGSDVQN KLKESAQC VGDEFLNCKLATR AKDFLPADIQAQFAISRE\LIRNI YNSFHKLNRNRAERIAS/RAIDNA ADLLIFGKELSAIGSDTTPLPSW AALNS\STWG\SLKQALKGLSV E\FALL\ADKAAQQGKQ\EENDV \VEKLNFLDLL\QSY\KDLCE/R GHEKGVF/HTKHQRALAQSTA* LKRPD*LSATGAEPSPPEVRGS KLKSRIRGARENAI\QTMELRN Y\FSLYCLH\QETQLIHVYLPLTS \HILR\AFVNSQIQGHKEMSKVW NDLRPKLSCLFAGPHRT\LTTPC SPPEDG\LCPH
8045	38413	A	8100	1	974	MPQVPAP/PLPSITSGHPGEP/PA RPSCSCLFSPQPCNSITPSSLLLR QLAVAAAGGCGGHGAPALSST GWQQVCKSPQVRSVPDNPITTA DSTASLAWKFGEVLRSHINCY K*KQQPLL PVHAQRRRAQVSAP/ APPAGLSCGQHSLPQPPRCSDL LGLHPGRLPCDRGHCPPLPPVT PTPDKAGPILDPAQSCPFCSPIA PPKQPSPPARFPFEMKRKKTL MPPSEGSLSLASGMEASVFQRL LSRCTCLDQATVIWGF CYMQV QASQGI PCRGKDELLRLAPLPV KEARRTKPRSPGKHAKAPPSS ACSPHLCCSSPILQALD
8046	38414	A	8101	1	460	SLQAPRRNSRAEHTRTLNSECP RRRRCCIKGCTYT*LDAVP\PPP VLDWL VQPKPRWLGGNGWLL DGPEEVLQAEACSTTEDGAEPL LCPSGYECHILSPG\DV AEGIPN RGQCVKQRRQADGRILRHKLY KEYPEGDSKNVAEPGKG\QQRH
8047	38415	A	8102	3	219	NNHRLDRTLPRDYCHAATAYT THELAFGDFRLPTEGHQELCHN SHLIYFRDK*THCTWRSVDSL TGVTHR
8048	38416	A	8103	230	555	NVRPS*ALQAPWGRHHL CVTP MQLRMTLVVSSLGKGTCGLSL AQ/CAPVQEGTHGGSPPEGWL AATRTCEGCRRENTMKNVGS KYAFNSLQLKAFPKHYRPEDL RKS

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8049	38417	A	8104	23	304	KGFYLFNKQTIEQTNNGSKSFA KRNTEGHDDLLQGFQGSQTPS FLSSSGRCYSWGAIGP\QFGALS G\FSPFPHSAANRQSSALDFWIT TSISF
8050	38418	A	8105	99	375	VLEFGALSGSLISPLCTIPALVE PPCGPQPSRSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSPQGVQ LPLGPR\RLKMNTEPPTRP
8051	38419	C	8106	5	376	
8052	38420	A	8107	545	990	GLCHVLQPCDPCLPGTMQEAQ PPEVLKTAGKAGGQEPG*L*RIP *GSLCPPCPVAFGAAELPLPSS DPVSRGTGAPPGQ*WLGFGYFS SNEGPSQAGG
8053	38421	B	8108	252	801	
8054	38422	A	8109	169	1226	PNGLRPPCPSPASETPGNAPVCD PGSSSQGAQGKL\KPGGLPGWL FPFFAQPSSEG/GLCPPCPVAFG AAELPLPSSDPVFRGTGAPPGQ GSW/PI*SPGSRSGTRADPVKGE VAGRERCLPIE*ASPGPPHSG* AGQVPGAGPPRTAG*GV*TGTA PCPKAQPRK*QR*R*RCSS*VG* ESAEIVCPQGDAEG*RKGSP*G/ SHRRNVPS/RYSNSHGPYDSNQ PHRKTITFEEDKVDSTLIGSSS HVEWEDAVHIIPENESDDEEEE EKGPVSPRSPRKR/PSATRAAA SRLRGS*TLGGLLGCIFAFFAPP SPTEGACAHPAQSLSGPLRSFRC HLRILCPARGLHQGRDDG
8055	38423	C	8110	58	504	
8056	38424	C	8111	203	1874	
8057	38425	A	8112	32	1026	KLLEQCLHSVSTWETPQYRRPP SPS*RGSRQPCSFSSPRDTPGE NHWLSLPQRD*AGPPVR/PSAG GFMTP/PPRGVPTVEVPPDPTC/S PNHTRPFRPFPSKNPCFRFPEPL RAPTLVPGPLPPTHGPRVPHLE RNLSALGLGKSEGLKRNPCVEP /PAPTPIRFPKITGTPLR/PAADH ALLGMRDQSLSGQSPGPKSPDA DDQLQNRDHTETEQRISGRSS ALAPESQLQGCAGIHFRGRFC KAPPLASGPA/RPPCLSLPPPW APVRPKPPR*APPPAP/PVPSPIN HPRAEECGRTARDWQAAPLAA LVRDPLDEASWAPESGGDVEN LYV

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8058	38426	A	8113	3	909	TEGGASHRAHPVGPAPRG\KRH SGATEPANGTWARRRGPGRDS SNQSSGGGERSQLRHRGWRR SRPLLPPGAASPLAGEDPERNA G\GWRGGAAPMRPKRGPMMNGG GCGPGAGSGAGGEALGRGRGA VSGCRPAPPVRRPPPPPPPPGG WLRRTAGSGPEYV/GSRCARGS GQVSAGGGLCARAARGGKLAP RLRALRGRSPWPAPLGRSPAR APARVPAGRCGPGA*RGRCAL GGQGEEGPAGSEGAGRPLPGRP GCPGTSPRLLPRRPVRKTDVGN RSSFFPRAPGRAPHACQPTQLII
8059	38427	A	8114	1	454	
8060	38428	A	8115	2	172	MFIYTSAFI*QFTNSINIPi*TSFC *TASVHLSCIVAVFCFHPCQCSS SFIQCTTN
8061	38429	A	8116	1	594	LAPVFKLIPMPVS/YGIFLYMG WAALSSIQFTNRVKLLMPAK HQPDLILLRHHVPLTRVHLFTAI QLACLGLLWIKSTPAAIIFPLM LLGLVGVRKALERVFSPELLG LDELMPEEERSIPEKGLEPEHSF SGSDSESELMYQPKAPEINISV N*LE*ESGSGDPRKQHEVLTQE VRTFLAFGLTSRCSVGLGKD
8062	38430	B	8117	1	3402	
8063	38431	B	8118	1	4614	
8064	38432	A	8119	3	435	DHAKLGTRTSGMRPHSLSLCFF SSSYDILMRITKDRVKNLTCITY TILPTDLQPGCGLPRSFYPSSKP TSFWLWACKLFPPLPISFNPSA HSKTAHGHSKGKTEAGM*WS* TGEGITGRCCFVSIKAPPLPSSG PVGGPVGG
8065	38433	A	8120	1	525	MALLPTVLCLWAQAQFLVDLG QSNSKHQEHQLAPDVAFKMK GACVCAAGFRGWRCEELCAPG THGKGCQLPCQCRHGASCDPR AGECLCAPGYTG VYCEELCPPG SHGAHCELRCPQNGGTCHHIT GECACPPGW/IG/TV*GPPSPGSL LGCLPRETSISLISSIQLCLYLLL

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8066	38434	A	8121	1	1050	MLIMTFHGLLPCMQMACKWQ LRVLVAGIRCDSTCPPGRWGPN CSVSCSCENGGSCSPKDGSECE APGFRGPLCQRTVHILYPRGCGI RDVGESGNRKQKAVEQYREH WTVSPEVQCSASHFSSVRPKSA CPPGFWGPACFHACSCHNGAS CSAEDGACHCTPGWTGLFCTQ RCAPGTFGYGCQKCECMNNS TCDHVTGTCYCSPGFGIRCDQ GIMLLL/CPHCGAAGPICLASAA AEREGPRPGSPCLLHTCHEDDQ HRLPLSGANSIPTYR*SGRPDS PLRTEALILPQ\CQKFSGSQGEV CAVSCAAGTYGPNCSSICSCNN GGTCSPVDGSCTCKEGRHICLQ
8067	38435	A	8122	3	732	IRCDSTCPPGRWGPNCSVSCSC ENGGSCSPEDGSCECAPGFRGP LCQRICPPGFYGHCCAQPCPLC VHSSRPCHHIIGICECLPGFSGAF CNQG\QAPTGNPSPGWYRS*EM TDPRCSCR/CLSGESTRHTSPVL LGTDASETQVIGFVNLAQFLIIC PRKLHYKAQNSKKSNNGSDASS DWKDWGIWDRESCEELCPPGS HGAHCELRPCQNGGTCHHIT GECACPPGWTVGA/HC*ALCCP
8068	38436	A	8123	77	864	PAVPEL*VFQAKPERKSRYWQL HFPPHSSSPTSWRKSLPEMYRC TCPPLTPYGCTCPPLSPYRRTCP PLTMYRRICPPLTPYRCTCPPLT PYRMFSSPLHKEITSAQRSPEPS SRPHSSKAAALR*QPRIMEKQRI YGPSPTSVQPASPPCLDDPRKK AERPDHRATGKRHLPETSL/YA ELVRRAVENPEDSEAPAPAPAA LSPASEHRTDPIQETKKARKSSD NDGSTPLAQTPTRRSSQWPRLG QFQQQEDDSSGLYSTG

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8069	38437	A	8124	314	1188	KHFLNFCLPYMILNKYRNQYCT FNDDIQGNKIFTAYGSITCLKLV HNCIKKIWLVDKGLIVKVRIC HF*PE*R*LCHSGWPSNLEAIVQ EIKPTALIGKHFLLSLLPYPLF*P DCFFNERPIIFALSNTSKAECS AEQCYKITKVK*NYNRYFNNQI FIHYREATLYPGQGNNNSYVFP VALGVVACGLRQITDNIFLTTA EVL*NPLSLPRV*NTKCAQPRN TIRDVSLKIAEKVKPLLFKLHYF SFLFLNMQEAFVRSQMYSTD YDQ\NLPD\CYSWPPEEVQKIQPQ
8070	38438	A	8125	1	1115	SPAQVMFQCLWKSCGKVLSTA SAMQRHIRLVHLGRQAEPEQSD GEEDFYYTELDVGVDLTLDGLS SLTPVSPTAS/IAACLPPPGAAR AAGAPSPA*SPAAACPAAPAP CPEHRC*PPVLSQ*PCLPRAA*R PPAWSRMPRRLEPAHPPCPPGS ESS*GSPAATRISAGM*YGMEA PGPPGAQPAAGRKP\PAVPGLK SGSFKNIKLPSPSPPPPGGAET ARRNKPQGAGPSAAGSAFNW VGVPDLTLEFPFPPGPGEGSPPT QS/SPLKKPSFLH*SPNPHLSPF TPKGPGGSHPSRLSARRFIKGV MGPALGGQSRCTLRGVGEGTP PLALNSTALGPWGCFYPCLFLK LQVSHVWAATRRREKLKI
8071	38439	A	8126	116	333	KLRDRCLSH*K*NGASPPRPTN VSIMRPSLV/SLVHHSGL*FPQM LRALS*LRVFGVAVSSP*MVPL NPCIIISH
8072	38440	A	8127	5	829	KPSPQPPCPRPGPPRARFLRRSP DVEKIPFA*RPCDVRGRPPAGG ARRRAASLG/PWVRRRLQARPG /LFRPRDFYLRSPRSYGTRP*KSP QSSPRGSARPD/GPA\PPPEPPV KRRARGVLESSRHAAPRRVFHL GREREQSQEGPAWPKRGRPAPS PQRTATWRPAAGGGK*GSAAT S*ARAGPARRGKRRG*EPREN RAGRPATRGRPPGRCCPPA*S PRPSKRSSPLCSRPSPWPTRPS KSSYGASLARTTTLQWKFSVNL IRKQIRDAQ

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8073	38441	A	8128	5	844	KPSQPPCPRPGPPRARFLRRSP DVEKIPFA*RPCDVRGRPPAGG ARRRAASLG/PWVRRRLQARPG RFAPGTFTCGAPRSYGTRP*KSP QSSPRGSARPD\GPAASARATR EAQSARGLGELAARGSQAGLP LGKGARTEPGGSS/CSQGPAPW KRGRPAPSPQRTATWRPAAGG GK*GSAATS*ARAGPARRGKRR G*EPRENRAGR PATRGRPPGR RCCPPA*SPRPSKRSSPLCSPRPS WPPTRPSKSSYGASLARTTTLQ WKFSMNLIRKQIRDAQ
8074	38442	A	8129	795	914	RGIRLASEMYPLTCFWRS*LYR RGLSARIALVNCRRNAL
8075	38443	A	8130	4073	5350	YSLKSGSVTPLALFFLLKIDLA MQALFWFHVNFKVVFNPNSVKK AIGSLMGMTLNL*ITLGSM AIFT ILILPTHEHGMFFHLFVSSFISLS NGL*FSLKRSFTSLVSWIPRYFIL FEAIVNGSSLMIWVSVCLLLVY KNACDFCTLILYPKTLLKLLISL RRFWA\GQWGFLDIQSCHVQTG TI*LPLFLIEYPLFP\LLPNC PGQN FQHYVE*QW*ERTSLS\LPVFKG NTSSFCPFSMILAVGLS*IALIIL RYVPSIPNLLRVFSMKGC*ILSK AFSASIE/YNHVVVFVGSVYMQ FLLVPLVEFGCESIWSWTFFGW *AIDYCHNFRSCYWSIQRFNFFL V*S\GRVYVLRNLSISSRFFSLFA *RCL*YSLMVVCISVGLVVISPL SFFIASI*FLSLFFFTSLASSLSILL IFSKNQLLDSLIF

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8076	38444	A	8131	1	1715	MDGISGGKRALRERHSSKAL GRCFPWTNITPPALPGITNDTTI QQGISGLIDSLNARDISVKIFEDF AQSWYWILVALGVALVLSLLFI LLLRLVAGPLVLVLILGVLGVL AYGIYYCWEEYRVLDRDKGASIS QLGFTTNLSAYQSVQETWLAA LIVLAVLEAILLVLIFLRQRIRI AIALKEASKAVGQMMSTMFY PLVTFVLLLCIAYWAMTALYL ATSGQPQYVLWASNISSPGCEK VPIN\SCNPTAHLVNSSCPGLM CVFQGYSSKGLIQRSVFNLQIY GVLGLFWTLNWWLALGQCVL AGAFASFYWAFHKPQDIPTFPLI SAFIRTLRYHTGSLAFGALITL VQIARVILEYIDHKLRGVQNPV ARCIMC*FKCCLWCLEKFIKFL NRNAYIMIAIYGKNFCVSAKN AFMLLMRNIVRVVLDKVIDL LLFFGKLLVGGVGVLSTFFF\S GRIPGLGKDFKSPHLNYYWLPI MRNPITPTGHVFQTSILGAYVIA SGFFSVFGHVCGTRSFLCFLGK DLGSVNNGFPGDRPYY/MVPRA FLKILG\KKNE\APPDNKKRKK
8077	38445	A	8132	1	208	GTRASSPAPCPSSAPAHSEAC CCRMSLWGSCGSGDGSSACG SGWNLSMAGTSCSSPAMCSPSR APS*RSASRPRTWRATTSAASS WAPRRCWCGWA*SAT*PSSTTT ISSSPHCGWPCPASCASAAWL SSTWATASVAGSCWGPIM*SSA PAHSFEACCCRMSLWGSCGGS GDGSSACGSGWNLSMAGTSCS SPAMCSPSRAPS

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8078	38446	A	8133	28	1956	SRAARERGRSDSGGRSDPGCPA VPACVPRSRPSMTAPAGPRGSE TERFLTPNPGYGTQAGPSPAPPT PPEE/VRPSPSS/TNTFS*VPATSF EPRAASPAS*CCKWSRSWWSR CSSSCLGSVISWL*HSGKRTPSP SDTSSCWATRTERMTSPQPTRG SSCTRPSSMLWT\SAGGRAGAG GQAGAVPGVA/WTCHWAGLLS ASGTTTEATWTRPTTHLTLIRW WLLTASRWIPPSGRLRPATISP SWKAAPVTRTSRNSNSTACSL EGGPGVSTWQGTALGAGRDP KTPLTLTRASCLGWSMSPSTSG *RPLTSRASSIMRSRTAIPSAS*S RLTTKHTVGGSPSAWRPRTSR SVSTPVSSSTGGQQLPGSCLTW WSYSPAPCTSSS\PLTPSRLPAA EQSLWGSCGSGDGSSACGSG WNLSMAGTSCFVTS\DLHHLG HHS*RSASRPRTWRS\LRFAAS SWAPRRCWCGWA*SAT*PSSTT TISAHPWCLSACSRSSMGTTT L*RSPPCRRSRAAAWCGSSPS STFTPSSSLFILHGAQPLHRAHH RAPTYTIKHSRRRRRKRRASCR PYIAQCPGQPHLRQVPPRERAR PIAIIIIIRKGPLGGAFAAGELI RPDCRWTVGPGLQRPPTPLIY L
8079	38447	A	8134	1	2994	MQRPLC\VEPMRLCFDSFLLL V NQEEEEGVVPCLEENGRAAA DPGPQDQDCLLPTLTPSLSGDE APDRTQSSGDPRERCYLSVTC EEGDNRFAAFCLCGSWRLNHG HADWCDQRRSQISNRLPASLGII VGTRGSRHLLAALRGVKEDRQ TKGCVQTPASLSPWLPGLSSET RAQKTCVLLIDYATFLKLAND DDDGCLDCLQPGVRTAWASSQ HGIRAPRKS\VGSA\SSPSLR TW ALTCTQNWFCVLLVK
8080	38448	A	8135	215	418	

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8081	38449	A	8136	767	1458	WREHLTKFNVWGKQHLESLSNS QQKNMRCPVRSQTRPPTDVKP VSRSGRREDRRAAGGEGGADR QGPGTARARAPGSPQRRG*GR NLR\QAGPPGKHGRGIPPPQTRG RSRGAPPGTPEGPRHPPRPASRA PGPATGAPKRPOPTQORQGHIA RDSRPSSDPVPLRETGAPPPWD A\SQGQAARPRATQTPSSAPVA TRQGSRRADSRRRGVTRRTER CAQPSLAVSRVPTR
8082	38450	A	8137	3	424	
8083	38451	A	8138	1	813	MVQKELEEEGRKSTPQSWGRE NMEKALNSSLKASLGGGVM CASVKALLTVVIAKVLGRLLAES LFLLLQTQTAL*QTL/RHTNRNI SHQYQDEIILDGSDLPMSRR KYEPPVFPGRKTYKISIRKAN KKCEEARQEKEAMVMKYVRG EKESLDLRKEKETLEKKLRDAN KELEKNTNLIKQLSQEKGR LHQ LYETKEGETTRLIREIDKLKEDI NSHVIKVKWAQNKLAEMDS HKSFKNPLVRCNFAATFGYYK KLIPEIKTGSSH
8084	38452	A	8139	3	808	NVRVEPTDSSFMEIEFAQKGA FDAYVAVGGGSTMDTCKAAN LYASSPHSDFLDYVSAPIGK GK PVSVP LKPLIAVPTTSGTGSETT GVAIFDYEHLKV KIGITSRAIKP TLGLIDPLHTLHMPARVVANS FDVLCHALESYTTLPHYHLRSPC PSNPITRPAYQGRNPISDIWGYS TRWGFVG*VS*RAVQEIPMDL *KARSHMHLASAFAGIGFGNA GVHLCHGMSYPISGLVKMYKA KDYNVDHPLVPHGLSVVLTSP AVFTFT

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8085	38453	A	8140	2	1154	IDPLHTLHMPARVVANS GFDVL CHALESYTTLPHYHLRSPCPSNPI TRPAYQGSNPISDIWAIHALRIV AKYLKRAVNSTDK*RRRMSLR APSWEWSPSRGPARCLPRRFY IT*GS*QRYLLWPLETVDEKY VSLQFSFRRQGVV*ITCLIFLPT *HFFFFHHIFP*GSSLFCRNCQC* CVIVRYLYHSQGWQKSR*S*RQ GLIWHLGKCFLLGIGFGKCWVF ICGHGNV/SYPISGFRWKDVIKG KGIYNVGIHPTGWPPWAFSVVP HVPQRCFTFHGPRCFPERTPWR WQEILGADTRTAQ/RSQDAGLV LADTLRKFLFRSG/IVDDGLAA VGYSKADIPALVKGTLP/QR VTSFAPRPQSEEDLAALFEASN ETVLNVHLN
8086	38454	A	8141	2	990	WENWISIC*RMKL/DPYFSPYTK IKSKWIKDINVKPQTMKLLQEN IRETLQDIGLGEDFSQAQATKA KVDKLDHVFKNFCTAKETIN KVKRKPKEWEKILIFADYPSDK GLITRILFIDHSWVFLGEGNLAG SSDNSGGKAWKHLLPLLASRCS GTHSNLRAKLRLSQGT VATWP VLKREGEKSCGPSEPD LGAPQ ARDVTPCLGICSSWLLQASGHH HIPWCQLWKL FVVYLVQLQPH REVALVPAPGA AHPTTASVPVC AQWLDPMVIHSH TLCCSEPDSP LAGMGFRPVAQAKHNPAPRPSG WNESSRPEQNLDKGATSHRGF WLAR
8087	38455	A	8142	1	196	GQYPWPLETNPRFLRE*TLPKS LQKSLL*DSPVPE*SLCGTCQQA RSLSEEVD ESSIQQVCCPT
8088	38456	A	8143	3	413	ITLGKDCIMHGYML/KLGNPFL TQWQRRYFTLFPKNI*WRRRGE SRQNLLTMEQILSVEETQIKDK KCILFRIKGGKQFVLQCESDPEF VQWKELNETFKEAQRLLRA PKFLNKPRSGTVELPKPSLCHR NSNGL

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8089	38457	A	8144	705	1983	EIKVDSSLLKSFLDLMNGKQNL ENLNALKDFAMMLNLSYATEII LGLEHMHNRFFVYRDLKVRTI DRILHSRYCVNGPLEDKVTEK DFPGNPEIKPS\GKWLGCPS*K PTLSQRGLMTLPCQTLGSG*LSF PE/VLDLP*WTNAHFADWFSLG CMLFKLLRG*VEMHPSSAVLM AAGAWMKT TVVRGFKTVFLSV W*LSCFIPSKRDVSKRLGCHGG G*AIVPAFRYLYQKSKIVILNFQ YPPPLIPRGEVNAADAFDIGSF DEEDTKGIKVHM\CHLFLYFYF WM/VMISVGKQEVTTETVYEA NADTDKIEARKRAKNKQLGHE EGKIAHVSQNISNAVNFNQFLY LTQWQRRYFYLPNRLEWRGE GESRVSLRQPHRACFPVRTMAY GYWLLRRAPKFLNKPRSGTVE LPKPSLCHRN S NGL
8090	38458	B	8145	156	281	
8091	38459	A	8146	2	181	VWCCSRTATLRTRNCARRRCS RGSRTWKRSGRSSRRRAH/SQ YDLERLRAAQKQLEREQE
8092	38460	A	8147	3	670	ETGLKNEGRVLVRHSAWCPLL WGREGSRSSLSSWPQLQGSPLC ASQGVVLQQDSYIEDQKLVLSE RALTRSLSRPSSLIEQEKQRSLE KQRQDLANLQKQQAQYLEEKR RREREWEDRERELR\DG RPSWP SARRRCSRGSRRTWKRSGRSSR RAH/SQYDLERLRAAQKQLER EQ\EQLRREAERLSQRQTERDL CQVMGLPAESNLMMILIKTPCV LSKVRK
8093	38461	B	8148	47	699	
8094	38462	A	8149	1	242	MNRGGFAVKILALLDALSTVCS QRVQKAKKQQHLQNKEHFKA LLKQKEKLLKQQEDL/RKKLF*IQ GIRCPQATPHHGQCSL

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8095	38463	A	8150	3	929	ASSCVVRAVPPG/SGVWGFRCG LCGPDCESGLLISGSRMFAGPQ G/PPGAGTAVTLAAGEEGLES STAQHSGSLCSEPP\VPRRHA WQGKSYSRNWLPARPRPALA MSSDTRGQAQLSPSWQLEKKG LSSSTAQRGCRALQGRAASARR \QRGKANPTAGTGWLR LAPGLP LLCPQTPGGRHSCHPPG/K/PGK EGLEQFYSSARLQGFAGKSRQV PDVTRGKANPTAGTGWLR/HR GPRGGEACAMAVRGP RSHEQR CPWSAGADSVS*GHCEGTDGR VASGACLQVDSRGSAGQNLPL DPEHWHVFCDFP
8096	38464	A	8151	2	1749	WVQGASLCVRASRAPLPLARP* VQGAELTHPWGPA AHP*TRNQ KPALGSSGPHSPH\GNPQTPTQA GQP*PHTARHGPVQEHGRGQR GPHLHKTETPQEATP*EVGSIAT EQA WLP HLCL*RP PPFHQGLFP RGPCMEGAQQRVEGSSSAQGT QVCMGPKTAGDWDGPWLVCW FH*G EAAARILRPGLG\GLSGHP LWPQGGGQMTVGYGGASEAC GAGELLMRRAPPQSPGKARGL PA/HYWHQQTGPRKAEI
8097	38465	A	8152	1	583	MAAVVAATALKGRGARNARV LRGKERDPGEGR TAEDPFSFTS SPTIAGGIL\AGATA\NKAS\HNR TRALQN/HTASPEGKEEP*/DPLS PELENTFPRKEGQRTPMESCGN LPWA\IGFPLWFLPLSSFTQAG KWDK/VTVLKAD*RLRAEHCG FSNTGRV*RARRFRAFLPEVAPF PLMFGSGVSGGADLRSVCDPP
8098	38466	A	8153	141	341	GTRGSPSKKGERVRRDAQQT A TW*TRSPASGCFQICEGNKQDE ACDVRGLQH CERHSLAGPREY
8099	38467	A	8154	1	521	MKNRSRNKGNVEWQAEGIRSK RSVGKQRPSKAKIPSGDKNGVS LTHNEVINNDNPLESNDEKEGQ EATCSRPIV/EFQQ**LFRPE* WRRASGNLQLIPKKRVSA*GTR GSPSKKGERVRRDAQQTATW* TRSPASGCFQICEGNKQDEACD VRGLQH CERHSLAGPREYMP

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8100	38468	A	8155	1	619	PEAELHNHGIQINSCSVRLVDIK KEKPFNSKVECAQARTHNN QASDIIVISSEDESGSTDVDEPLE VFISAPRSEPVINRATPCELKC* KEG\QEAIC/SRPRDVPRALGFR KF\SPFEESFRKGLLGQDPDFPD SIEKKPPAEASSG\ALRSKHGEK APMTSRSTSTWRIPSRKR\RFSSS DFSDLSNGKELQETCSSSLRRG SGKE
8101	38469	A	8156	362	1043	PTTPPSAGSSWTTASPPS*GKA WLGTRPPSPWRRMSASMRT\S EEDGRLQPQLPL*AHPSESSGQ DRGNQVSVGREADCGQD/SPVS TMTRSHPGRPCAEGC**PCCSSR P*PCPCGSGSLVTSPLSLPAPSF WLPLRPS\SPPGLPPLQSSLSFPP PPPPVPQPPAPPALQWGLHLP VPQPGVPAGRRVVRLSAKHLPR LPDHSV*GAPGRRSLREHL PQH RPGDQ
8102	38470	B	8157	52	633	
8103	38471	A	8158	15	3054	AGPDGLAAPASCQGARGQTRV PGAFSWLAPGSHHASEGLAPG VPPAGGVSAQELTAPPQEGWG LGAPPAAPRPESDEKRAGSDAV RSFSRGARDSLGQRRLGGTRGA GPAGKGAQRTMGPASGFHSFPP RPHQEPSRSCWQHLLWHCP WPQPSRLPRLTPAQLLQGGPVL AAPPGP*HVPGF LAQSPWPLPS GPRSP*DPLHQGALVPLPQGG PHTAPHCLPSVLSPAIQQLPT AST/SSRSPPASTMAP
8104	38472	B	8159	748	3111	
8105	38473	A	8160	1	463	GGGGGRGQRGRPSRPRYLCPGP GPTG/GPGACAAGGVTVGPSED NGRPLLPPQRHPPVGFDSRRRC RFRLPKHKERSPDARFKEGPGG AA/GPGARGQ*DSARTPDS\ALK LVRPPLPIPTGRPSCASGGR*PA GKRGHLSAPPRGRSSPGPSQP

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8106	38474	A	8161	1	2733	MALRRAGAGRTGCFIAIDTML DMAENEGVVDIFNCVRE/LRAQ /RVNLV/QTEEQYVFVHDAILEA CLC/GNTAIPV/CKLQNLQNTK CTAMSNYTLTQGLLQHWLS*T T*FIWLAGTMRLCLSLCVDAA APWVLKTLNIVT/PRVRPEDCSI ARPNHDKNRSMDVLPDRCLP FLISVDGESSNYINAALMDSHK QPAAFVVTQHPLPNTVADFWR LVFDYNCSSVVMLNEMDTAQR GQSFVGPLEFGGAQL
8107	38475	A	8162	1	307	
8108	38476	A	8163	3	969	GLFCSRKTTPSK*\KHNVIASDK AAEKSVVHEHEHSHDHTQLHA YIGVSLVLGFVFMILLVDQIGNS HVHSTDDPEAARSSNSKITTTL GLVVHAAVFYVSLFPNIADGV ALGAAASTSQTSLVIVFAIM LHKAPAAFGLVSFLMHAGLER NRIRKHLVLFALAAPVMSMT YLGLSKSSKEALSEVNATGVA MLFSAGTFLYVATVHVLPEERL KLVTVLGAGLLCGTALAVIVPE GVHALYEDILEVVPFYYCHLY VYEYLMFSSHFCSPDPWQDQL LTLRVCSSTSASLGEGCLGVSSI RKGMELSVQAQHHVEVAKA
8109	38477	A	8164	164	240	
8110	38478	A	8165	2	417	QQIRKLIKVGLIIHKPVIVHSQV GCQKSTFS/RTRKGRHMG TG*R KSTANFQMPEKVTWMRRMRIL HWLFGRYHESKKTDDHMYHSL YLKVQGNMFTNKQILMEHNHK LKADKAHKKFLADQAEARSSK TNKASKLREER
8111	38479	A	8166	1	86	RTRGCLSHHNNH*HLHRHHLH HHYPYSY*HHHCLNYH/APYLF HWLYH/APHHLNQHAHYLHLY YHHHYNHHHHLHHHHRSHCH HHHHHLTIHLLCQH HHHH FHPT KHLLLAHPQALQTHHNNHDM/ HHHYPYSY

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8112	38480	A	8167	50	1156	LLLQFSRATFILFQPPANTFTSA FSQTRARRGGSGRGGGQESAEE TSEFGDRHAPEAAAAATRG SAR APEPKHASSCGTRGQCACARRE VEAQVRAKGDVAERARRGGR WLTRSGMEHLERCEWLLRGT VRAAVRRYLPWALVASMLAGS LLKELSPLPESYLSNKRNVLVN YFVKVAWAWTFCLLLPFIALTN YH/HDRQGWLGPA/D*/CTLLV GTAIWYICTSIFSNIHYTGSCY QSPALEGVRKEHQSKQCHQE GGFWHGFDISGHSFLLTFALH DCKKRCLCLQ*R*KTDRSHCLH TAITTLVVALGILTFIWVLMFLC TAVYFHNLSQKVFGTLFGLLS WYGTYGFWYPKAFSPRTSSPEL
8113	38481	A	8168	2	926	
8114	38482	A	8169	2	1053	TRERFSVANRVTGSETVPAKAE GPESAAGGQEEEEGEDEEELSG TKVSAPYYSFWGTLEYHNAMV AGTEEARDGSAGVRVLYLYPT HKSLKPRPVSLEGKCRFKENCR FSHGQVVSLDELRFQDPDLSS LQAGSACLAKHQGWPLERQHA SPMWDNGYLHSQV*LAAA\RE AVVGGGRHPAPTAHKRPQESD SDS\EV RVTPAMPEWWGQMLW TLGPAALPLLGWVHTRGIGSR LLTKMGYEFKGGLGRHAEGRV EPIHAVVLPRGKSLDQCVETLQ KQTRVGKAGTNKPPRCRGRGA RPGGRPAPRNVFDLNEKLQGG APGALEAGAAPAGRRSKDMYH CQQECQAGP
8115	38483	C	8170	166	419	

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8116	38484	A	8171	55	1157	ALDEPHGAGASEERAGDVFGPP RRVPGPSLWPLEAWPTSSQKV MPQVRCLHLHQVWGQRGGPPR KRWAWAARGHTGLGPTPHGP SWTHSNFLKEKIF*KMFAIKQV GPEAKQSLPNGFPGVATAWSP VRSSVCPLFIKARPC*QLQDSC WDPGGTETADPGHTGLELRFPE PPKPTLPLALSEAPVPQREEKTQ GRGHYPAPQCLPGDPCSPHHPA PQPHQPHPAR/HN*PPPPRPSSHP PTTVPPTRPQPWQPGCCAQPPR PCLH*RGGN*VY*GMQLHQKS VSWPHSQWPQKREGNGSSHEI HPSCPPSGFHGPSPEGRMPTQA GALHSWVPGLSLSHGSGPHPPP RWTATVQAARPRVPPLTNL
8117	38485	A	8172	1	362	LFDNTVYCPRTERLLKNDTKH QRHAQSACQLSTTLVCSQHRK VSDFIFQHKHSAPLPQKSKRKQ NQSFMLKTLNKLIDEMYRA IYDKPTANIILNGQKLEAFPLKT GTRQGFSLSPLL
8118	38486	A	8173	1	655	MIISTDAEKAFDKIQQPFMLKTL DKQGIDGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPF SQLLFNLMLEVLTRAVREEKEI K\GIKYLGIQLTRDVKDLFRN* KPLLNEIKEDTKKWKNI PCSWI GRTNTVKMAILPKFR*WTR*RQ FSTVHKD*KLSETVSHSYLKIKF WKLKRPFLHSEPLKERQQDSV SLMNWVCMSSKTGQY

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8119	38487	A	8174	2	1936	DKPTANIILNGQKLQAFPLKTG TRQGCPLSPLLFNIVLEVLARAI RQEKEIKGIQLGKEEVKLSLFA DDMIVYLENPIVSAQNL\AKLIS NVS\KV*GYKINVQKSQAFLYT TNRQTESQIMSELPFTIASKRIK YLGQLTRDVKDLFKENYKPLL N\EIKEDTNKWKNIPCSWIGRIN IVKMAIL\PKVIYRFNAIPIKLPM TFFTELEK\TTLKFIWNQKRARI AKSILRQKNKAGGITLPDFKLY YKATVTKTA\WYWYQNRDIDQ WNRTEPSEIMPHIYTLI\FDKPE KNKHGGKASL\FIKW\CW\ENW LA\CRKLKLDPFLTPYTKINSR WIKDLNVRPKTIKTLEENLGITI EDIGVGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTIRV NRQPTTWEKIFATYSSDKGLISR IYNELKQIYKKKTNNPIKKWAK DMNRHFSKEDIYAAKKHMKKC SSSLAIREMQIKTTMRYHLTPV RMAIIKKSGNNRCWRGCGEIGT LLHCWWDCCLVQPLWKSVMR FLRDLELEIPFDPALPLGIYPND YKSCCYKDTCTRMFIAALFTIA KTWNQPKCPTMIDWIKKMWHI YTMEYYAAIKNDEFMSFVGW MKLETHLSKLSQEQTCKHRIFS LIGGN
8120	38488	A	8175	2	1105	LPTKKSPGPDGITAIFYQRYKE ELVPVLLKLFQSIEKEGILPNSF YEASIIIPKGRDTTKKENFRPI SLMNIDAKIP**KY*QN*IPAAH QKSLSHHD\KVGFFHPPGMQDW F\NIHKSINLIQHINRAKDKNHM IISIDAEKAFDKIQPFMLKTLN KLGIGGTYFKIIRAIYDKPTANII LNGQKLEAIPFEMLKVMYRAF RQNKQIKGIILEKEEVKLSLFAD DMIVYLENPIVSAQNLLKLISNF SKVSGYKINVQKSQAFLYTNTT QTESQIMSELPFTIASKRRKYL GIQLTRDVKDLFKKNYKPLLKE IKQDTNKWKNIPCS*VGRINIVK MAILPK*DVLASPSPTMTVTC RKQVQVL
8121	38489	B	8176	120	2036	
8122	38490	A	8177	3	316	

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8123	38491	A	8178	1	1447	MSIRVTQKSYKVSTSGPWFFSS CSYLSGPSAHISSLFSRAGSSSF QGGLGRGYGGASGMEVITAVM VNQSLLSPINLEVDLNIQAMHT *EKEQIKTLNKFASFIDKVQFLE QQNKMLENKWSLLQQQKMAQ SNLDNMFESYINNLRWQLETLG RKKLKLEAELGNMQGLVEDFK NKYEDEINKYTEMENEFVLIKK DVDEAYMNKVELEYRLEGPTD EINFLRKLQEIRELQSQILDM SVVLSMDNSHSLDMDSIIAEVK VQYEEIANRSWAEAERMYQN* YEELQMLAGEHGDDLSTKTEI STINQNISWLQAEIEGLKGQRA/ SLESTITDVEQRGELVIKDANA KLSQLEAALQRAKQDMALQLH EYQELMNFKLAQDIVITTYRKL LESEGSWLESGMQSMSIHKMT TSGYAGSLSSAYGGLTSPSLSYS LGSSFGSGAGSSSFSTSTRAA VVKKIEAQNGKLVS KSSDVL PK
8124	38492	A	8179	272	1813	KCGLRSRSSFSA PSRISAWFGPP ASTPASTMSIRVTQKSYKVSTS GPRAFSSRSYTS GPGRISSSSFS RVGSSNFRGGLGGGYGGASGM GGITAVTVNQSLLSPLVLEVDP NIQAVRTQEKEQIKTLNKFAS FIDKVRFLEQQNKMLETKWSLL QQKTARSNMDNMFESYINNLR RRQLETLGQEKLEAELGNM QGLVEDFKNKYEDEINKRTEM ENEFVLIKKDVDEAYMNKVEL ESRLEGLTDEINFLRQLYEEEIR ELQSQISDTSVVLSMDNSRSLD MDSIIAEVKAQYEDIANRSRAE AESMYQIKYEELQSLAGKHGD DLRRTKTEISEMNRNISR LQAEI EGLKGQRASLEAAIADAEQRGE LAIKDANAKLSELEAALQRAK QDMARQLREYQELMNVKLAL DIEIATYRKLEGEESRLES GMQ NMSIHTKTTGGYAGGLSSAYG GLTSPGLS\YSLGSSFGSGAGSS SFSRTSSRAVVVKKIETRDGK LVSESSDVL PK

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8125	38493	A	8180	1	3519	MHKELPALAACGLVADFDVPG EEETADFGPLVLDSDDSVDR DIEEAIQEYLVKGSSKDQGSASP VSMSRADSFQISRAEIEQFLNE KRQHETQKCDGSVEKKPDTHE NSAKSLSKSHQEPATKVVHRQ GLMGVQKEFAFCRPPRLAKTN VQPRSLRSKVTTTTTQKEGST KPATP/TRPSEAVQNKSGIKRSA STARRGKRVTSAVQAPEASDSS SDDGIEEAIQLYQVQKTHKEAD GDPPQRVQLQEER
8126	38494	A	8181	208	445	AACVWRERHHRAEECGCPGVH LPPLLHP*KSKWPGRC/RLRGN AAHHPPWGQQTALCGGLQ QPESQ*GLSSLGGS
8127	38495	A	8182	1	1607	MDMFRSGIRRDGGLGDGIVRA RRRRQGALAGSSQPIQAAVPR GP\GPAPRDPRSWPCQGSSGEA *PYWKLEGAGLE/RKRGTETRA VGEQLESWRWRKDVAGCSSP TPIPEFGAAAPTKS/GPAGPSSTQ QPSSRIWAAPRKRLAG*DTA HK NHP/SAAP*PAPQDRARPK*PPR ADPQRSVTPPRSPKGS*GSPFFP KQ/PRIPKSGAASEASNPLLAITS QVVGGSESETRVEGLMKEESV REGNAAFSRFLRKSVAACKPPAS EKDRGSRAAEGDEHASSNLQEP IPHL*P*TALGERPEARQQPIRFRP PGEPCHPRSVNELGTGEPHTF QLGCLQRHPGAVDQAGPRGPG AGSRARETGKTGTNSEAAVRQ EPKQRILSKIHTSSTPGHRL/EPT AFRTRSARSPELASGHQAGKVV AGPRVRARGA\PTGRPGLAAR PTEAERASRAPCP\PPQTDARLFI TARPRGKSGCRLPAHSPPDPPSR LPGPRSRSR/LSPA VRVVAAGEK EASGAETAFFPAWGTMA LFWSL QPRALQAL

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8128	38496	A	8183	3	683	ERGITAGPPGVHPPTARSAGAA LPVWDSSACVEGVRPAPAMDP *EHQLR\SGLGCCQDTLMLIESGP QVSLVLSKGCTEAKDQEPRVTE HRMGPGLSLISYTFVCRQEDFC NNLVNSLPLWAPQPPADPGSLR CPVCLSMEGCLEGTTEEICPKG TTHCYDGLLRRLRGGGIFSNLRV QGCMPPQVCNLLNGTQEIGPV GMTENCNRKDFLTCHRGTTIM THGNLAACI
8129	38497	B	8184	230	252	
8130	38498	A	8185	29	316	GRVSRCLPFKLVTPLVLCFCLWH RSY*EYRNF*MNQISKTQLKQR PTRFTG**QPWPRWW/PAPPRPS QGRLAGREWSTQAHPRDSQGP RLCGEGRGA
8131	38499	A	8186	1	57	SRPVQAGPKATGTPQPPPS*PEP VERPLSMASGTHAQGPSPPSW PQLTGAVAQDSPSPGLLPRTD APAPSMPTADGVQRCARQSGN TGPRVAT*PVAPTSFPAGPDSGE MG/ESCRRRPGT*PTPFQSRLFR RRPSASRIYGLLGPCVISL/HKK QKSLPPLAPPGTITVDILFTWAS SLFSLNATEGHTVRHV*CSRRN YQKANAPRTPTASPNTSRSHLG NAKTPPQTVPHRDHPTPQEHTG DTSSCVAVLSANTRERA AVEC GVTVLNLD*LK*TARSYSMSSA STGVAGSVQGKR/LRTSALSSG G*GPKATGTPQPPPS
8132	38500	A	8187	1	3564	
8133	38501	A	8188	154	256	
8134	38502	B	8189	1	1206	
8135	38503	B	8190	1	1311	

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8136	38504	A	8191	2	2491	EAGEWEEGPSQNGLVLQGEKL PPDFMPKLVKNLLGEMPLWVC QSCRKSMEEDEERQTGREHAVAI SLSHTSCKSQSCGDDSHSSSSSS SSSSSSSSSSCPGNFGDWDPSF LAEHKRLGLWNSPHSIGAMPGS SLGSPPTIPGEAFPVSEHHQHSD LTAPPNSPTGHHHPQA/LSNP/AL TPAPLAP/APHPHLLPTTPAAPFP AQASECPVAAATAPHTPGPCQS SHLPSTSMPLLKMPPPFSGCSHP CSGHCGGHCSGPLLPPSSQPLP STHRDPGCKGKHFAHSGLACQ LPQPCEANEGLGEEEDSSSERSS CTSSSTHQ RDGKFCDCCYCEFF GHNAPPAAPTSRNYTEIREKLR SRLTRRKEELPMKGGTLGGIPG EPAVDHRDVDELLEFINSTEPK VPNSARAAKRARHKLKKKEKE KAQLAAEALKQANRVSGSREP RPARERLLEWPDRELD RVNSFL SSRLQEIKNTVKDSIRASFVCE LSMDSNGFSKEGAAEPEPQSLA PSKLSGSSEQPDINLDLSPLTL GSPQNHTLQAPGEPAPPWAEM RGPHPPWTEVRGPSPVFPENG LVRR/HEHRAQPIPGDLGQDTQ AG\HPSSEEASSKEVPCKQELP EPVSSGGKPQKGKRQGSQAKK SEASPAPRP/TSQPRGSQCQGP RWP/TSSQAGS*SLPK*AAVLKL ERGAGGAGQDQVGLAVPKLRR
8137	38505	A	8192	277	434	
8138	38506	A	8193	4	168	
8139	38507	A	8194	26	219	PRLQCIGQPRLTLPPGFK*FLCP SLPSSWDHRQTPT*LANF*KNY F**IWGFTMLGMGSGTCNP
8140	38508	A	8195	1	498	
8141	38509	C	8196	105	251	

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8142	38510	A	8197	1	1620	MWGVGKITDPKDVDTLIPGTC GCVTLHGERHFVDVIKAGPTRS VQGNPKLGSKKMEVSIMKTQE SIKLTVKATTQRRNRNESNGPT TEFHQSTMTNTHSDTWMVVLD PMKPGGPFEVMAQQTLEKINFT LRVHVDVLFQDVWLCGQSNM QMTVLQTLSCGVTVFIMTLA GAHGSTLSSGIFSIYQSDSLKCK SGRKAPVGPRVLRGTYSQS NSTGNPDLFVQDHTWQFCTKH SGSYVASMETVDETAFILSTHT SFRTDWELKCFITVRRQLGRQY ERTCYLSFRPVANTVEYCIGFRF ASYINNDMVLQKEPAGAVIWG FGTPGATVTVTLRQGQETIMKK VTSVKGLISLLVCLSQFEIVPED DPQNAIVSSADACHAELLRTIS TTMGKLMPNLLPAGADFFGFS HPAIHNLIQSCPGARKCINLPAS RPVGLSIGPLSPLDSYQWVKFD VCKPGDGQLPEGLPENDAAMS FEAFQRQIFDEDQNDPLL*SSL* PWLVMVPL/WSSGIFS/TISK*L FEV*VGSESSGSPCAEDRLHM VSRKFHRKSRPVCSGSLAVLH *ALRILCCFHGNSG*NCFHSLHP H*/HSALTGNSSASSQ*DASLGG SMREHATCLLDPLL*STVLV FALLHTSIMIWCCRSLGQ*Y GASVHLEPQ*P*PCAKVRKPS*R K*PV/CKGLISLLVCLSQFEIVPE
8143	38511	A	8198	1	900	
8144	38512	A	8199	915	986	IITDRPGFHDESAIYPVGYCSTRI YASMKCPDQKCLYTCQIKDGG VQPQFEIVPEDDPARNAIVSFFW QMLVMQN\SQDYKALLWGKL MPNLLPAGADFFGFHPAIHNLI QSCPGARKCINYQWVKFDVCQ TLEMGQLPEGLPENDAAIRALK PFQRQIL**RIDKRNLLLKIKQL KVFPGKTITRTRFHDEIPLVSSLP SELLPSFIYPKILV
8145	38513	A	8200	3	414	
8146	38514	A	8201	1	2445	
8147	38515	A	8202	1	248	ENGNLGPIQAEVKGATGECNIS ERKSPGVEIKSLRELDGSLVH KIAEGFSESKRSEDENENKIE FRK/KGGF*GGGFLRRK
8148	38516	C	8203	70	324	
8149	38517	A	8204	1	675	

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8150	38518	A	8205	692	808	
8151	38519	A	8206	1	1954	PGTGEETVRLGFPVDPRKVLIV AGHHNWIVAAYAHFAVWYRI KES*WQQVFTSPYLDWTIERV ALNAKVVGPHGDKDKMVAV ASESSILWSVQDGGSGSEIGVF SLGVPVDALFFIGNQLVATSH GKVGWNAVTQHWQVQDVV PITSYDTAGSFLLLGCNNGSIYY IDMQKFPLRMKDNDLLVTELY HDPSNDAITALSVYLTPKTSVS GNWIEIAYGTSSGPVR\IVQHP ETVGGSPQLFQFTVHRSPVTKI MLSEKHLVSVCADNNHVRTWT VTRFRG\MISTQPG\STPLASF LSLEETESHGSSGNDIGPFGE RDDQQVFIQKVVPITNKL FVRL SSTGKRICEIQAVDCTTISSFTVR ECEGSSRMGSRPRYLFTGHTN GSI\QMWGSGPLLWDMVNKSE DKDVSGPT\EEELLKLLDQCDL STSRCATPNISPATSVVQHSHLR ESNSSLQLQHHDTTHE SATYGS MRPYRESPLLARARRTESFHSY RDFQTINLNRNVERAVPENG NL GPIQAEVKGATGECNISERKSP GVEIKSLRELD SGLEVHKIAEGF SESKKRSEDENENKIEFRKKG GFEGGGFLGRKKVPYLASSPST S\DG GTD SPGTASPSPTKTTPSP RHKKSDS\SGQEYSL
8152	38520	A	8207	2	383	
8153	38521	A	8208	13	332	SKGFIVLLKCLQILKTPSLGPGN QCLNAGKESRGGGLSVKA*RA RPDSWRPGPPLSISITLRR LKEG RRHHRALPLCCITLLASSPNCI AP/TSVP*IPRLHPFWL
8154	38522	A	8209	1	1839	
8155	38523	A	8210	1	364	
8156	38524	A	8211	3	3723	MIPAGGRAPGPYPSPVPAESEL VNGNHTPQTATRGPSACASHSS LVSSIEKDLQEIMDSL VLEPGA AGKKPAATSPLSPMANGGRYL LSPPTSPGAMSVGSSYENTSPAF SPLSSPASSGSCASHSPSGQEPG PSVPPLVPARSSSYHLALQPPQS RPSGARSESPRLSRKGGHERPPS PGLRGLLT DSPCTTVLAEARR ATNETPRLGGQLPVVAISLSEYP ASGALSQPTSIPGSPKFQPPVPA PRNKI

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8157	38525	C	8212	398	415	
8158	38526	A	8213	3	45	
8159	38527	A	8214	1	929	IAAAPELLERSGSPGGGGGAEE EAGGGPGGSPPDGARPGPSREL AVVARPRAAPTPGPSAAAMAR PLVPSSQKALLLELKGLQEEP EGFRVTLVDEGDLYNWEVAIF GPPNTYYEGGYFKARLKFPIDY PYSPPAFRFLATKMWHPNIYETG YVCISILHPPV/DTDPQSGELPSE RW\NPT\QNV RDHSS*V*SSLLE RRPNTFLRPANVGRLPWMLQG SWEREQGGRIRELHRTSFRKQV LGTKVDAERDGVKVPTTL\AEY CVKDQGRRAPDEGSDLFYDDY YE\ DARVE\EEADSCFGDDEDD
8160	38528	A	8215	80	430	IAQGPFFYPGWPCSGPGGNTSSP RPPPTGGK GK/PGGPQK/PLAPRI PAVFTRGDSG*RSCPATTPLSA GSPSLPHRIPEKPPHRIPEKHLH RACAHAPDPGSGGLRIFLTAVH HGKL
8161	38529	A	8216	3	645	FSVSHLLDLEEAGDMVAAQAD ENVGEAGRSLAESPGLTSGTAT PQQDNDQLNSEEKKKRKQRRN RTTFNSSQLQA\LERVFERTH*T PSSLFSLFLMPSCLLTILQVWF QNRRAKFRNRERAMLANKNAS LLKSYSGDVTAVEQPTDLQLCE TNACYSPCSLLCPYSAMATYSA TCA\NNSPAQGINMANSIANLR LKAKEYSLQRNQVPTVN
8162	38530	A	8217	3	907	RVDDFVAVQLGRPIGSCFGGRA QLQEGVQKPQAMAVGNINELP ENILLELFTHV PARQLLLNCRL VCSLWRDLIDLVT LWKRKCLR EGFITEDWDQPVANWKIFYFLR SLHRNLLHNPCAEEGF EFWSLD VNGGDEWKVEDLSR DQRKEFP NDQVKKYFVT SYYTCLKSQVV DLKAEGYWEELMDTTRPDIEV KDWFAARPDCGSKYQLCGHLS\ DAAQPHGTFQPD PATIQKSD AKWREVSHTFSNYPG VRYIWF QHGGVDTHY WAGWYGRVNTN SSITIGPPLP*HPLSPHLLNPDW
8163	38531	B	8218	117	398	

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8164	38532	A	8219	1	3063	MSLEVDRSVETMCSGDEILLPD LPKADVADPLWGPFVQNCLS LARSDSREQGLVLMESRNRE VVPPGVSYSKDGAKSLKGDVP ASEVTSKDSTFSQFSPISAECC GDDEKIKVDDPLTRRTCQASG SAPQQDYDKLKAFGGENSSKT GLSPSGNMEKNKVVKREAEAN SINLSVYEPFKVRKAEDKLKEN SDNVLENRVLDGKLSSEKNDT CLPGTAPSKTKSSSKLSSCSSAI MALSAKKAASDSCKEPV
8165	38533	A	8220	1	1188	MPLDEDPSKLCRHNLCLECNE IFQDKTSLATHFQQAADMSGQ KTCTICQMLLPNQ/CQRIHQHKS P*TCPECRAICR\SHCEVFYKCP CPMTFKSAPSTHSHTYTQHPSIK IGESKIIYKCSMCNTVFTLQTL YRHFQHIENQKRDVYISHVRK EHGKQMKKQPCCQRDKPFSSS HSLCWHNRIKHKVIRKVYTCSH CSDSRGTFTKQLMLEKHVQLT HGIKDPDLKE/TDRRHQ*GGNR NKRRPQGPQSQVEVERTGSGV QASQ\GAITQPKLEINVFKVHKC AVCGFTTENLLQFHEHIPQHKS DGSFYQCREHLFVAHKLKEPQP VSKQNGAGEDNQQENKPSHED ESPNGAMSDRKCKVCAKTFET EAALKTHMQTHGMAFIKSKRM SSDEK

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8166	38534	A	8221	842	2687	KGECLPSALS LNNGRESLESL ESLSLEGFTRGRAGLR TCSPCL SLPAPPWAPVLP EPPRGAPPPAP RRPVPSTTQGLRSAGARRGTGR QLHLRPRC/ADPLGEASWAPES GSAPAILKVRIKTIKMSSGEIKR TVTRVLPEVDLDSGKKSSEQTA SVMASVTFLSSPASAAILS/SSP QGASPVHGH DQCSFTC/SSSPLN RAPA/GAIIKAANAIQQQTVVVP APSRANAKLVPKTVHLANINLL P/HGSATN/ISRQ*SMQQ/RSQPP KKVSRVQVVSSLQSSVVEAFN KVLSSVNPVPVYIPNLSPTNAG ITLPTRGYKCLECGDSFAVEKS LTQHYDRQSMRIEAADTRGQK TCTICQMLLPNQCSYASHQRIH QHKSLYTCPEC GAICRSVHFQT HVTKNCLHYMRRVGFRCVHCN VVYSDVAALQSHIQGSHCEVFY KCPICPMASNQNKEDTKSMNG KEKLEKKSPSPVKKSVETKKVA SPGWTCWEC DRLFQIRDVYISH VRKEQGKQMKK HPCRHL CQH NRIKHKGIRKVYACSHCPDSRR TFTKRLMLEKHVQLMHS LKDP DLKE/TDRCHQ*GGNRNKR RH QVPQSQA PLHCTQVKGT SASV QAKWSWGR
8167	38535	C	8222	1	438	
8168	38536	B	8223	98	463	
8169	38537	A	8224	1	2679	
8170	38538	A	8225	1	1209	AADTRGQKTCTICQMLLPNQCS YASHQRIHQHKS LYTCPEGAI CRSVHFQTHVTKNCLHYMRRV GFRCVHCNVVYSDVAALQSHI QGSHCEVFYKCPICPMASNQNK EDTKSMNGKEKLEKKSPSPVK KSVETKKVASPGWTCWEC DRL FIQRDVYISHVRKEQGKQMKK QPCCQRDKPFSSSHSLCWHNRI KHKVIRKVYTCSHCSDSRGTFT KQLMLEKHVQLTHGIKDPDLK E/TDRRHQ*GGNRNKR RPQGPQ SQVEVERTGSGVQASQGAITQ PKLEINVFKVHKCAVCGFTTEN LLQFHEHIPQHKS DGSFYQCRE HLFVAHKLKEPQPVS KQNGAG EDNQENKPSHEDESPNGAMS DRKCKVCAKTFETE AALKTHM QTHGMAFIKSKRMSSDEK

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8171	38539	A	8226	58	391	FAKNDGFQLHPCPEPL/PWSQTRTQSAAWA*GCNYLQPTGAADLLAYFEFLGPEGKTGW*QGLDRDATGAPPSPTARQ/RVGKALGT AASLIPSFIP*SKKMARETAAWSEW
8172	38540	A	8227	993	2235	NGGPHLWRLPTAHRACGERH GQAVACGGAVAE\ALVGPAPT VGLRRGCPHSAPGGYACPVSSS TYSGLGQRCVFPHYSPRAVPN LVPALGAPK*MGPASGL*GD MLPAASVKRAPTAAGPWMLYP YSPARLDSAA/LQALSTKKVAS DSSKEQVANSRESSLSKEVND SPRAADKSPESQNLIDGTTKTS LKQLDSPRNISSENSIKGTPASP AGSTPPIPKVRIKTTKTSSGEIKR TVTRVLPEVDLDSGKKPSEQTV SVMASVTSLLSSPASAATLSSPA RVPLQSAVVTKQFPLQSPPLNR SQSSLWLLSSQCLL*RQQDPK SLI*SSLTTPR*KPRS YLLPLSRV PAAPSLKLANAIQQQTVMMPA SSLANAKLVPK\MHLANLNLPP QVAPATSELCPVSIKTQ PQI
8173	38541	A	8228	1	3370	MIINTIITTTTTITIIITIMSSSPIT ITNIIHQHHHHNDQRPSLGK CRGLYIRVRKVPERATANSRC PINAQIESCWNGVMALWLGPNSTCSRLPELTDSEDCQIYGDTERKRRHSRKTCTWEYQVETKDT FLEELLFEPALRTGIQSKQGGPL LQLAANNYNLEPKQHFGSWFG TMKQLGETESIFS FAYEVCLTV YEIFGLPGIAPSKTKSFSNFLSCI TAIAALSTKKVASDSSKEQVAN SRESS
8174	38542	B	8229	1	438	
8175	38543	A	8230	38	597	VPCGPHCRLPSAWRTSPRLWN DTTSRKWKSGVAKSSCYNL*PS AGMRRKRF*LRAPSTLSGSALL *NRLMRSRRFCATSSCAS**CEQ RTSLSFEGSLWRSTITSRPPPSA ARISSASAPTRRRCASESAACRR STGRAGPGPGGKQQMKAGR\ RGTAQPSSPHPLGIPTHHPDTRG ASRQTGHL
8176	38544	C	8231	1	1062	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8177	38545	A	8232	3	595	WSSAQPRASRAASRSSLHSS RRLCLRCRAPRRPQLVASAKGR ASSARSRRGRSRSRR*RGRARS GGGMSPLAQRRLK*ASSSSGRG AAWSRASRGAARGSGPLTGRR SAPLHSSSTVPCSPRYARPGPPR ATA/RGPTRATCLPSHRSTITSRP PPS\LPVAVQPALPPGAAAPPSP PRAGGALAALGPGLTVGAGR
8178	38546	A	8233	2961	3005	SRLQQTIQADAFACAKGCWP GGM/DELEAETSSSLFLLAMQV WMCGRMEDIPCSRVGHIYRK YVPYKVPAGVSLAR/SKNLKR AEVWMDEYAEYIYQRRPEYRH LSAGDVAVQKKLRSSLNCKSF KWFMTKIAWDLPKFYPPVEPP AAAWGEIRNVGTGLCADTKHG ALGSPLRLEGCVRGRGEAAWN NMQVFTFTWREDIRPGDPQHT KKFCFDAISHTSPVTLYDCHSM KGNQLWKYRKDKTLYHPVSGS CMDCESDHRIFMNTCNPSST QQWLFHTNSTVLEKFNRN*A ALLFDDESQFDSSNCQHSCYPR
8179	38547	A	8234	203	314	VPASSPALGSTLEFQLCEPINSG FCLNQID*GFGYL*ARFMSWPY WSLLSPFPLIPLH
8180	38548	B	8235	1	1008	

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8181	38549	A	8236	2	1495	CLVVTSTDSIRFQIIPWAGTEMK QE/IIKLKDGSMEEHLKKPLEDY MALFPSVRILRTKKREGLIRTR MLGASVATGDVITFLDSHCEN VNWLPPLLDRIARNRKTIVCPM IDVIDHDDFRYETQAGDAMRG AFDWEMYYKRIPIPELQKADP SDPFECQLVRDTLGDADSQQH DVSHLARCQADFLFPWSPVMA GGLFAVDRKWF/WELGGWAFS HGDPQQPWKESLFFPSSCTSPQ VESHWPAGPMPIPEQYCNWSP AVTCPVTAGRVCLGWGWR*RK *WGTDLLGARWKS KPF*SP*T NQDVKNPHDLIEQFQRKEHFC TESAWLGCPQNGSWLLQSQRS HRERWNHGIFMTVISAVSCGLH GVVCGGRMEDIPCSRNLKRVA/ EVWMDEYAEYIYQRRPET/GHL SAGDVA VQKKLRSSLNCKSFK WFMTKIA WDLPKFYPPVEPPA AAWGEQKDMPLSQYTSKGAGI KSYLGSCTHHWGHRGRQKQG NILIAHQ
8182	38550	A	8237	1126	1603	TIMKITGRAGDAIMGADICH/N KDRKVRKPKSQDIYLRLLVK LYRFLARRTNSTFNQVVLKRLF MSRTNRPLSLSQMIQK\MKLP GRENKTA VVVGITDDVRVQE VPKLKVCALRVTSRARSILRA GGKILTFDQLALDSPKG*GTVL LSGPRKGR
8183	38551	A	8238	504	737	QLCWAGGKILTF\DQLAVDSRK GCITVLLSGPLKGRKVYGHFGK APGTPHSHT\KPYVHSGRKF RARG*RAS*GYKN
8184	38552	A	8239	1	360	MLGFALLPAPPGPGLV/GSG*SP DDQ\GRTGPALAPSCLSRPSPAT LNSAGSEIHDRPRSGAPPTCLR GSAQASTSACSPGANGPEPKPG LGTLRQQLEHIMATNRLDEAG WVACYPTDVR

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8185	38553	A	8240	3	666	MSFRQLFQDLKRYVQDADVR WEYCVRAKRGQTDTSLGRLFQ QGPVPGVRHRAHSATSPDHRFP VADLTGQGV*GCGPPAAPWG AG*YPGAPLHAGLGTLPAAG AHHGHQPAG*GGAGSPATRLM SVEGCSQRPWTEAPDRPLEHEA VCSVRPRPRCFLGGVGRAGAFL EEEWQHQSVCVPCPPWGLGT CSSMSGKLSRPPASSLLSRGKA WGQEEES
8186	38554	A	8241	2	443	RTSLEFFFFF*DGSFTLVAQA\ GVQWRHLG*LQPRPPGFK*FS YLSLLSSWDYRHALSHLANFV VYVLF CFYETKSRSVTKAGVQ WCDLGS LQAPPPGFTPFSCFSL SSWDYRHLPPHLVNF/CIVSRDG VSLCWSGWSRTPDYK
8187	38555	A	8242	1	354	VSLQPV SQEGVSQRTL GQSSRS SGSG/CPGELNSPIFSGVPHRWD AA*EESRAAGVPWPSGQISGMC SKFRI*NW*DVSWAGWSEDLRS *VDLSHGAKSRRTGD*SPKGGP PIRV TAP
8188	38556	A	8243	2	241	WSTGLLRSGS/NQSSAGKPRR SQSESPG*GSRSSGSGCQESGT CH*G*RRRG*GVLAPAPGKRDL PPRVKDQVRHPCVV
8189	38557	A	8244	5	282	AKKESVREPWARVPGALGVAA R*VEQSDFQCGPAQMGHGLGG IPGCG/PFLGLVVRFLALVASSC PFPRKAGLA AKGEGPRQASLRG LTPLKRG
8190	38558	A	8245	1	302	LSREGVGQKALGQSSRGSGSVC /LGELNSPISSGVPQRWDTA*EE SWAAGIPWPGGQIDFWHL*QA PCPRKSREGVETRREGVGV LAP SPEKRD LPLRVKD
8191	38559	A	8246	1	200	LSPKGV SQRALGQSSRGSGSG/C PGELNSPISSGVPHRWDTA*EES WAAGIPWPGGQISGTCSKLHS
8192	38560	A	8247	23	187	
8193	38561	C	8248	1	1764	

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8194	38562	A	8249	115	872	LRRGRYPPPP*ELPKARHP*WS TGLLRSGSISLQPVVSQEGVSQR AFGQSSRGSGSG/SPGELNSLISS GVPHRWDMMA*EESWAAGIPWP GGQISGTCS/RAPGGGGSGGMP GCCGSGVWKFLCASRKAGKGS GHRDTRSGCGHKGLGRRDMRL GCGNKSGHRDIRGWGTCPPF RKAGLAACKGEGPRQASLRGLT PDLKLVRC\PWAGWSEDLRS*V DLSHGAKNRRTGD*SPKGGPPI LGRPLRACSAAAVHF
8195	38563	A	8250	85	529	SGSISLQPLSREGVSQRALGQSS RGSGSG/CPGELNSPISSGVPHR WDTA*EESWAAGIPWPGGQISG TCS/RAPVGGGSGGTPGRCGSG VWKFLCAGDVAGVCLTVEAR NCNFFLLLYTLKARLIKSCPCPR KAGLAACKGEGPRQASLQ
8196	38564	A	8251	1	552	MEARETGWPKEGNVERVASVL IKKGTGLPSTVRVTGSSASVMV YGASEAIGHQSSAAKPRRSQS ESLGPEFQGLWEWLPGPRAVK RLRVIFDEKEPKRYLIWDKEKG ALTMTPLAPATFLRVNCWAG GGGLVTERNCKP*WSTGLPRRS GSISLQPLSREGVSQRALGQSSR GSGSGCQGLGL*SVLIKKGTGL PSTVRVTGSSASVMVYGASEAI GQHQSAAKPRRSQSESLGPEF QGLWEWLPGPRAVKRLRVIFD EKEPKRYLIWDKEKGALTLTM PLAPATFLRVNCWAGGGGLVT ERNCKPDQMKKGIEIKRRERLK CGSKIERRKRLRDEGGWRRVE
8197	38565	A	8252	535	710	KCFPACHHYHNHHHHHHYHHH HQHHHHYHHHHHHHRITIIITIF TIITIIINIIINIIITNITIVIFMRVR VKRPPNRLCVSNMAVYFTWVQ KKKSSLAFSSVVTSDLKSKKRR LSGKSLETSSASLMVYGASEAT GQRQSAAKPRRSQSESLGPEF QGLREW*YDGGDDDDNDGVD DGGDDSGGGGGCGSGGKQESI SIFD

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8198	38566	A	8253	54	563	AEKESVREPRARVPGARGVAA RPSA/RPR*GRLLCSPTYPKH* NCAWHQQAGCWLGTGPAAPA SPPACAAFSWGYGGLPAPIQTA FQAGW\GAPGQRGRSKTTRPGV QSVSNPGEPAPRAAASSGLSS GAFPAPATDPGICSWA EGLVM GKGHHHRPSISARIPCFHV
8199	38567	B	8254	232	987	
8200	38568	C	8255	1	1812	
8201	38569	A	8256	1	1035	
8202	38570	A	8257	2	664	SLIKLIPPPRPFGRNRHLPVIRQN ERTQRGKRRGVTRYMFSRPF*/R KHGVVP/LATYLCEIYKQRCD VDIQGEWGTCSKKGMP/HHKC YHG\KTGRSLTIVTPACLLPLFN TTQFRRKILAK\RVN\RIEHI*AL LRARD*LP*NRVKENDQEKERS PKRKGTWGST*SRQP\APPR\EA HFLEEPNGEGALSCWEPFPYWI SLGLLGVKKKNKKDLWATKK
8203	38571	A	8258	1	747	MSEFLKPLPEVDAGAILLVQP AELYSKASRLDDCYQKDSYTH RCQEKRTCHTTGGHSGKHQSL SGASVSPTCSAKTRDKINCFDFS PKSEVITLSSNDDSI VLSDCQEG KPKPCSGPFATFKMQYDRTCE WTALKISNGGKLILISTNVSFIR LIGAFKGVVIHTFGSYANSEAV TLEASFTADSQFVMIGSEDGKI HVVNEESG\KK*LGWMVNTQA QLPVCNSTPSSMTFASACSNMA FWLPTIDD
8204	38572	B	8259	50	260	
8205	38573	A	8260	1	541	EVWGPGLASEGAVGITHGPFPK AKRNPVKVRSKRRDPPIQFQNL RRS*WRSIPRKPGRQTGSRRSL WT/ALHPGAGTAKHPPPA/CA GRET*CKSKSPAGRKWSFHRSS SRRASE*DASQFAVPAGVTSRE PFGSRRTGAPTGGTGTPTRTAR SRTWSSSWVRLSGRTGAVGYS RSPSCSS
8206	38574	C	8261	177	236	
8207	38575	A	8262	1	417	

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8208	38576	A	8263	2	475	GIHTRLNSELLKEEESNKRLEAE IEVYQSRLTAAISKHSESVKTER NVKLAL*EQDVSQVKMSSDI SEVEDKNEFLTEQLSKKQIKFN TLKDKFRKKRDTLRKKSLEAET L/QNDLSQTQQQIKEMKEMYEN AEAKVNNSTGKWSCVEERICQ LQHEN
8209	38577	A	8264	3	518	IFRAPFRICLGILLSPNTEQAQY KKOLEQ/FKQGYNTASLNKKEL TLKDVECKFYKMKTAEEVTT ELEEEYKEAFAAALKANSSMLK KLTKSNKKIAMIS/TQLFMEKEQ VKYFLSTLRARRGRESPCDENL TSIGL/NRKYIPQMPVRIPTS/SPQ TSNNCQNYLTVSHMTVSL
8210	38578	A	8265	1053	3733	NGRSCCERSSTKKECTDIESSEF VNRKSLTSG\EEEEQRRERSEK KQPQDFHNHEEVKDLMDENCI LKT DIAIPRQEICTMKNDNLEKE NKYLKDIKIAKGTNAALENCIK LNEEMITKTAFRYQQELNDLKA ENTRLNSELLKEKESKKKLEAE IESYQSRLAAAISKHSENVKTER NLKLALERTQDVFEPAGLEEA ELVLSRLSCGEATEGAARRALA AEEAGRWRGVDG/DSWLAPES RLHVLKTCGSCWWENLELGRH H*LCLWAVKNFQKRFLPGQKK SPFQLMSPQREFQHTL*ITQKQN RVMNFIKKYLRLMSSV*CMP LT/IKHSIDKEVRSTSARLPCLGS EERICPAALSGKYKKLLEMTIN VLSVFGNEDFDCHGDLKTDQL KMNILIKKLKHKFDDLTAEKEA VSSKCVDLAKDNQVLQQELLS MKKVQQQCEKLEKDKKMLEE EILNLKTHMEDNMVELSKLQE YKSELDERAMTAVEKLEEIHLQ LNKGNTASLNKKELTKDVEC KFSKMKTTYEEVTTKLEEYKE AFAVALKANNMSK\LTASN KKIAMISTKLLMEKEWVKYFLS TLPTRRGQESPCVENLTSIVLNS KYIPKMTGRIPTSNP*TLNNWQ NYLTEEDMVSGDLISGTWSME EWSLGASSLGTWSAAVGQYLA RWPLCDLSVTVAESPSPLCCGA
8211	38579	A	8266	2	209	

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8212	38580	A	8267	1	1431	MTQKAAASVEHLAIRCHWSQR PAVTGDVLQVYSGSEGTAIIFCE TQRSVTEIAMNPHIKQNAQCLH GDIAQSQRFTLTKDFREGSFKV LVATNVAACGLDIPEVDLVIHG SPPQDVE/SYIHRSGRTG\FVTM TLESLEEIQDVSCAWKELNRKL SSNAVSQITRMCLLKGNVRVCF DVPTTKSERLQAEWHDSDWIFS VPAKLPEIEEYYDRNTSSNSRQ RSGWSSGQSGRSGGRSGSRNYF AVDTASAIAIALMTFGTMYPMS VYSGKVLLQTTPPHVIGQLDKL IREVSTLDGVLEVRNEHFWTLG FGSLAGSVHVRIRRDANEQMV LAHVTNRLYTLVSTLTVQIFKD DWIRPALLSGPVAANVLNFS DH HVIPMPLLKGTDDLNPVTSTPA KPSSPPPEFSFNTPGKNVNPVIL LNTQTRPYGFGLNHGHTPYSS MLNQGLGVP GIGATQGLRTGF TNIPSRYGTTNNRIGQPRP
8213	38581	B	8268	128	1497	
8214	38582	A	8269	1	618	
8215	38583	A	8270	1	334	LFHSIFGYLPFARQTLPGSILVF TYTQPPKIQFANGTKGLPDPLM TPK*QK\APLMPLLVSLGLSAST IALGTRIAGISTSVTTFCSLSNDF SASFSPYLHRCFLPWSSL
8216	38584	A	8271	1	2919	
8217	38585	A	8272	1	4192	MRIPVDASTSRRFTPPSTALSPG KMSEALPLGAPDAGAAAGKL RSGDRSMVEVLADHPGELVRT DSPNFLCSVLPTHWRCNKTLPI AFKVVALGDVPDGLVTVMAG NDENYSAELRNATAAMKNQV ARFNDLRFVGRSGRGKSFTLT TVFTNPPQVATYHRAIKITVDG PREPRNNECVYGNYPEIPLEEM PDADGVASTPSLNIQEPSPATS SEAFTPKEGSPYKAPIYIPDDIPI PAEFELRESNMPGA
8218	38586	B	8273	385	3930	
8219	38587	A	8274	830	906	

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8220	38588	A	8275	483	971	ATMPGHFYLCETGSNSVSQAG VQ*HDFGSLQPPPGFKQFSCLS LLSSWDYRHMPPRPANF/SVFL VEMGFYHVGQAGLGLLTSGDP PASASQSVGITGMSHHAGPTM KLLNPQSEVIFSPRNSHSTLLTP LSRHLPHPISISTWCIHYAPLHT VSISAEAP
8221	38589	A	8276	1	2088	
8222	38590	A	8277	1	1822	MMTKDGLVFGLRGSPILYVQ GLSRFRSFSVASGDSKRTRHRE KLPLLEAGERDHNCYGSQIL FQAICKIAKPGKEQSCSKLVGH TFDPLLIEARKPEERQKLPDPCV KWGGVGNFPPVKRVGDIRIFVS QGGKFSQAPEGPEVTSGSQGLE SKTLEVYPVFYCTVAELALNHN VQPSHSTLFPQAEEPHSVATTT GPWGVLPGCCQCSLKAQGLFS QLVMNAACTGIHTSGQWAPLW PSTVPEMPKSSGLESCTPRTCF VLYPAVAKLLPRGTLAYSGKG CONSSANHWDTQIHSPCHAA AAREYGGKSGISDSRLSPTLFA SFSNMNLKLDKVFVKYGCFCF EATAGANVLIKIRESKYKNTD DIDILSRQATPVIAQLAHEHSGH VAGMEVVFGFSNTDFHLPRQT WLQPLSHASLLAAETNTESKND TTPQGDQPATWRLNSGYGYAF PACNASAKTIHGLTEVLYTVLV DGNHNLTKLSLEEENCLIQLK CENLQKLEQMAA\E*KSLRRK RATQEECLMHSNLKFKEKSAE YTALARQ\EAAL EGRQKVAE EIEKMSSRESALQIKILDLETEL RKKN\EEQNQLVFKNEQ
8223	38591	A	8278	1	5103	MDESSVHSSVGDRHVDRVSTS QVAERTRCNKMWRIETKSPSG DNEGTVIEKKTRL SGQGFCL QLSEGLQNLQAQRRKIKFREME DPSSRPLCSSLDIALCASVKPSA GFPQRPVKPLCVLGSGAGTG DAERSLQSSDPLKKQQPLARSL RGLCERIVLGGSGCGARGLRG AGGGTALSVP GASRGFEGMFG LDQFEPQVNSRNAGQGERNFN ETGLSMNTHFKAPAFHTGGPPG PVDPAMSALGEPPILGM
8224	38592	A	8279	1	783	
8225	38593	A	8280	888	4915	

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8226	38594	A	8281	94	757	APTGCLACNLLLCELGQVTSPL *ASAPKCVTVHN*PLCKALPRR *SSAWELS*MRKLRLRGVNFLR TDGLCFCISTRATPPSSARARCV STSLKPASLQLAVSYHHGSRSQ GCHLPAGREVCTSQSRGVRETS PWGCÆKGSPPYAEGFPAVISLNP PSSSTAHDLPANKASASQPGSH LQCLSVHCTDDVGDARASV PTWRSLSHSDISNRFGTFFAALT
8227	38595	A	8282	2	374	
8228	38596	A	8283	260	500	
8229	38597	A	8284	98	828	RWASVFPHFPFYLPALLEKKT AERRGGAFSRNKQTAGPCGGT LQEEGSARTVGDSYGEASAGG FSCNKEEGNQRYREG*VTEML\ GVGYHRALLQLRGLDPS/PALS VT*SRTSGPRPSRLNKKTYCIPP RQDCYNNLAACLLQMEPVNYE RVREYSQKVLERQPDNAKALY RG/SGVAFFHLQDYDQARHYLL GCRE*AALKMPNVRRYPRLTR VRTQQPTHRKEKQLLPWACLV NKEERCSSS
8230	38598	A	8285	396	602	GNCGPEKERTCLRSPSWTPMPS\ PKQAVPVSSWPPGPHHQRCVP SRSSNFSKSSKSNSCDGWNSSSS SS
8231	38599	A	8286	3	156	SVVSLSPHR*AIQILSGVAAGW GLSDGPSSSPSPSGARDTGSPG SSLGL
8232	38600	A	8287	32	515	ARGSWGPGAGARPPGTARRAA RCATGCGSRSSSHAPVSPRRA APSSVHPGGCHGPALPPSPRR VTQAADARRAAPPLRAASAAP SRRWSQATP/K/RRLGYPPPRP PAHPGPR/PPLRRMVSRRSSGDP PRRLT*TGSETPKSTWRELSSRR RSLQSKAATR
8233	38601	A	8288	30	460	RRCPAQRGEIWQSGH\RALLSC SGLHPFQTSWLPVYTVRVKLPT QALAMVDAPPPTKLECPRLISV CCYAGSENFKVPDLSLLSSIGGS GGVGTRGNLLVCELRPPWDKR SIWAGV\SRFLRLSPSRFPLA*LG LSSYLTTTRKT

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8234	38602	A	8289	2	1094	RMSRISDDSRITASQLDEFQECL SKFTTRYNSVRPLATLSYASDL YNGSSIVS\SIEFDRDCDYFAIAGV TKKIKVVEYDVTVIQDAVDIHYP EN\EMTCNS\KISC\ISW\SSYHK NLLASSDYEGTVILWDGFTGQR SKVYQEHEKRCWSVDFNLMDP KLLASGSDDAKVKLWSTNLDN SVASIEAKANVCCVKFSPSSRY HLAFG\CSDH\CVHY\DLRNTK QPIMVFKGHRKAVSYAKFVSG EEIVSASTDSQLKLWNVGPY CLRSFKGHFNEKNF\VGlassG DYIACGSENNSLYLYYKALSKT LLTFKFDTVKSVDKDR\EEDD TNEFVSAVCWRALTQMGES\N VLIAA*QFRVPIKVLELV
8235	38603	A	8290	1	667	MRKATSEDGTVIAQAEYGSVD IGEEVLKKGFAEKRLASRTDI CEEKKLDPGQLVLRNLKSPIPL WGHRSNQSTFSRPGHLSEKM TDLKDENDAGNLITFPKESLA VGDFNLGNSVSLEKIKQDQKLI EENEKLTTEKDALLESYKALEL KVEQIAQELQQEKAAAVDLTN HLEYTLKTYIDTRMKNLAAKM EILKEMRHVDISVRFGKDLSDAI QVLG/SKGALLQLL*MD*R*Y GQNTVWLRRILKL/SEYVSEGN LIAQRNEMQQKLYMSVEDFILE VDESSLNKRKLTLDLSVSLEA VYGQAKEGANSDEILKKFYDW KCDKREEFTSVRSETDASLHLL *HGSKEP*RIKVMQTRR*FQIHI VKYCKRFIQRKGS LPQYKLSTR TVLS/SKKQLIEYLKKIPSV DHL LSIK/TDIEKLKSSTQMEIG*KE* FGKSQMILMALKLRK*KKK*LK KGFAEKRLASRTDICEKKLD PGQLVLRNLKSPIPLWGHRSNQ STFSRPGHLSEKMTLDLKD ENAGNLITFPKESLAVGDFNLG NSVSLEKIKQDQKLI EENEKLT EKDALLESYKALELKVEQIAQ ELQQEKAAAVDLTNHLEYTLKT YIDTRMKNLAAKMEILKEMRH VDISVRFGKDLSDAIQVLG
8236	38604	A	8291	1	325	
8237	38605	A	8292	1	593	
8238	38606	A	8293	1	2013	

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8239	38607	A	8294	2	1427	LLARGAGRTNPAPPLMSCGPW GKFLKCCVYKSGPYKVQ*EEI TIHSRAEAESTYQIKYEELQTLA GKHGDDLRCAT/T/EISEMNQNI SRLQAETEGKKGQASLEAAIA DAEQWGELAIKDANTKLSELE AAMQRAKQDMA/RQLGEYQK LALDIEIATYRKLLEGEESRLES GMQNVSIHKTTSGYAGAPARI VSLQNELLSLEVGVKLGHTG KGEELGAPYSECSFGLCRRTVM LTQAPSSVVRNRNRNHTVNSG GSCLSASTVAIPAINDSAAAMSA CSTISAQKRTCCTACEPARKYK DTASHQEPAVCQPACQLETADP KGGGVLALPQPPSPGMLCWPY CRAHATDYFLANFFSEFPCHFL HRAGAAQTQATGDGMEHGQS RELPKRKAPREESETSEEKSPNK WGPVSKQKKQLLDILTTHIRPT RGNAYTGLSTRKWKPRSEENA LMQPNKKDEKGTLTQKLGL
8240	38608	A	8295	301	462	
8241	38609	A	8296	2	825	YPPSPGRSAAHVSTLYRTTP* WPDQRSAAPPTA WAAS*SPSAR RRPSAESMVPREPL*YRPSAATS AATPAISPARALGAGAPCPLFR RRSGPFGRTSAIRPPSSAGKAVL FPPHGRPVWPVGRRLARYATAS GWGAHI*ASSGASE/PAVVSVL AGSGASPFHSASWDPPAHPAAA ASAAAVIPAL*RSGDRPPVLSFQ PLFWFLIRGDNVSFWLLRGLP CPSQAVTTRHRS LQKEKLKRN KSCVNFMQSQVSVSKYSNLVK HHHFCIRPL
8242	38610	A	8297	3	251	
8243	38611	A	8298	208	307	
8244	38612	C	8299	18	197	
8245	38613	A	8300	1	1866	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8246	38614	A	8301	2	2558	FEVLWSDSSITSVTKSSSEVTEFI SKLCQLYPEENLEKLIPCLAGPD AFYVERNHVLDLDSGLRYLASLP SHVLKNDHVRRFLSTSSPPQQL QSPSPGNPSLSKVGTVMGVSGR PVCVAGIPSSQSGAQHHGQHP AGSAAPLPHCSHAGSAGSALA YRTQMDTSPAILMPSSLQTPQT QEQNGILDWLRKLRLHKYYPV FKQLSMEKFLSLTEEDLNKFES LTMGAKKKLKTQLELEKEKSE RRCLNPSAPPLVTSSGVARVPPT SHVGPVQSGRGSHAAELRVEV EQPHHQLPREGSSSEYSSSSSSP MGVQAREESSDSAEENDRRVEI HLESSDKEKPVMLLNHFTSSSA RPTAQVLPVQNEASSNPSGHP LPPQMLSAASHITPIRMLNSVH KPERGSADMKLLSSSVHLLSL EERNKGSGRSSMKVDKSFGSA MMDVLPASAPHQPVQVLSGLS ESSMSPTVSFGPRTKVVHAST LDRV LKTAQQPALVETSTAA TGTPSTVLHAARPPIKLLSSSV PADSAISGQTSCPNNVQISVPPA IINPRTALYTANTKVAFSAMSS MPMGPLQGGFCANSNTASPSR HPSTSFANMATMPSCPAPSSSP ALSSVPESFYSSSGGGGSTGNI PASNPNNHHHHHHHQQPPAPPQP APPPPGCIVCTSCGCSGCSGSSG LTVSYANYFQHPFSGPSVFTFPF
8247	38615	A	8302	2	266	YCGPL*SVWVARNPPGFAFVEF EDPRDAAGVV*ELDGRITLCP PSWGHPR*DDYCRRGLPPRRRP PRRRNLSCSRSLYSPWTLSL
8248	38616	A	8303	37	535	ESWLVLGRRKAGRLIGACGFEP PHFLTLDLEMHRDSCPL\CKV YVGNLGNNGNKTELERAFGYY GPLRSVWVARNPPGFAFVEFED PRDAADAVRELDGRITLIG\RV REE\LSNGEKKK\SRNRGPPPS\W GRPPSENDNRKEESFPPR\RRSP R\RRSFS\RSRSLF

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8249	38617	A	8304	2	668	EIAERRITQPAPPGPSRPSGPGPA GELGGPGTGRALCPADNGGLC CGCPLAVP/GPLAVPR/ALKPQR TSLSHPTSVTNGGRGVSQPGPR RHPGLPTQASTKPPQSRRDAAP LGGAGRGGPGSMAAARTPRGG GH*GVDGPGRPRDASRLGRLF RPRSADPVP*P/PVAIGRDLPS PDDNGQRP*GAWKVSE/CPERR RVERLAAIGRLVFILPDFAVGRE
8250	38618	C	8305	101	183	
8251	38619	A	8307	329	399	RERET*SSINTTFIPGSVLQPDAS PSKTGTLTSIPVTIPENTSQSQVI GTEGGKNASTSATSRSYSSIILP GVIALIVITLSVFVLVGLYRMC WKAHPGTPENGNDQPOS DKES VKLFTGKTISHESGEHSA*GK
8252	38620	A	8308	192	537	KFPTSTPENGNDQ*PQSDKESV KLLTVKTISHESVILNQNMDEI TEIEFRIWMAMKITENQKIETHS EESEEFNKTIQGMKYEIAILRKN KTDLTELKNSPQEFHNTLEVLT AE
8253	38621	A	8309	1	789	
8254	38622	A	8310	1	423	EDIWFDDVDPADIEAAIGPEAA KIARKQLGQSEGSVSLSLVKEQ AFVAGEELEVQKEVAEMLKG RILVGHALHNDLKVLFLDHPKK KIRDTQKYKPFKSQVKSGRPSL RLLEKILGLQVQQAHCISQD AQAAMRLYVM
8255	38623	A	8311	1	1077	MGKAKVPASKRAPSSPVAKPG PVKTLTRKKNKKKRFWKSKA REVSKKPASGPGAVVRPPKAPE DFSQNWKALQEMGSKKKPKII QQNKKETSPQVKGEEMPAGKD QEASRGSVPSGSKMDRRAPVPR TKASGTEHNKKGTKERTNGDI VPERGDIEHKRKAIGQPQPH PPR/IDIWFDDVDPADIEAAIGPE AAKIARKHLTRALALDCEMVG VGPKGEESMAARVSIVNQYVK CVYDKYVKPTEPVTDYRTAVS GIRPENLKQGEELVVQKEVAE MLKGRILVGHALHNDLKVLFL DHPKKKIRDTQKYKPFKSQVKI QDAQAAMRLYVMVKKEWES MARRRPLLAPDHCSDDA
8256	38624	A	8312	3	640	

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8257	38625	A	8313	1	1274	MGKAKVPASKRAPSSPVAKPG PVKTLTRKKNKKKKRFWKSKA REVSKKPASGPGAVVRPPKAPE DFSQNWKALQEMGSKKKPKII QQNKKETSPQVKGEEMPAGKD QEASRGSVPSGSKMDRRAPVPR TKASGTEHNKKGTERTNGDI VPERGDIEHKKRKAKGQPQPH PPR/IDIWFDDVDPADIEAAIGPE AAKIARKQLGQSEGSVSLSLVK E\QAFGGLTRALALDCEMVG GPKGEESMAARVSIVNQYGKC VYDKYVKPTEPVTDYRTAVSGI RPENLKQGEELVVQKEVAEM LKGRILVGHALHNDLKVLFLD HPKKKIRDTQKYKPKFSQVKSG RPSLRLLSEKILGLQVQQAHC SIQDAQAAN*GCYVMVKEGVG RAWPETGAPCLTASRPLQ*RRL SSPALLAACPPRLQRQC
8258	38626	A	8314	2	414	
8259	38627	A	8315	1	621	
8260	38628	A	8316	1	885	MGEKPGPLLFSSAKPKNPQEGE HKDEGDHPNNSFSPCSAHDRRC LQKHFAKIRDRSTSGGKMKVN GAPREDARPVNKGTYLVSTGG QTVAF TTGSWDQDDSESSLGC QEDSTALHPTSTSPGPSETVPPS LLPEATKRLLSLDFESFGQTQR NLSCPLCPAGVWQEKTLCEWR DAGGNRQAGVPQAPCMKSNN ALIVILGTVTLDAVGIGLVMPV LPG/SPALLQRQAEESPGRRTQG /RRVTTPTTASAPVAPMTAGAC RSTSPKFETGAPVGAR*RSMGR PGRMPGL*IKAPTWCPOVGRLL PSLLAPGKTTQSPA/SGCQEDS TALHPTSTSPGPSETVPPSLLPE ATKRLLSLDFESFGQTQRNLSC PLCPAGVWQEKTLCEWRDAGG NRQAGVPQAPCMKSNNALIVIL GTVTLDAVGIGLVMPVLPGLLR DIVHSDSIASHYGVLLALYALM QFLCAPVLGALSDFRGRPVLL ASLLGATIDYAIMATTPVLWIY
8261	38629	A	8317	1	396	

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8262	38630	A	8318	186	2123	CPAHCWQEAMLSAWRLVMSP GGPCTQHPAPACHPSVLTTPRK AGEPRP*WPPCPAWGPLADSSK PHRWRPKPPASCRPLVRRPWGP QRTLTPTLTSHWRASIR*SWNW TPSSCFPQGLGAPRLSWPRAPC Q*ERRRNLPWT*STSR*PPDQ GATMAPSTAPAPLSRPSAPFA VVASSFPETSPERHEAAVRASSS LGTRAGGTSALCPPQQRVSP/HRP PNSPSISIPCMGSKASSPHGLGSP LVASPRLEKRLGGLAPQGRSRI SVLSASPVSDVSYMFGRTPHSP PLAKEHA\AAAPHPSPTPWWTY PLC*STAAQN/RGSSPPQRTPGH QNSVQPGAASPSNPCPATRSNS QTLSDAPFTTCPEGPARDMQPT MKFVMDTSKYWFKPNITREQG CPGGAVSISDSRIVPAIELLRKE EPGAFVIRDSSSYRGSFGLALK VQEVPAQAQSRPGEDSNDLIRH FLIESSAKGVHLKGADDEEYPFG SLSAFVCQHSIMALALPCKLTIP QRGCHTLYLSSVSVELTGTALA VQKAISTTFERDILPTPTVVHFK VTEQGITLTDVQRKVFFRRHYP LTTLRFCGMDPEQRKWQKYCK PSWIFGFVAKSQTEPQENVCHL FAEYDMVQPASQVIGLV TALL QDAERM
8263	38631	A	8319	15	909	LHVSHPGHADARGGLQPCAA PPLWLCRIQCPPRWFQTPSQVF YHAATEHGGKDVYPGQCLWE GCEPFQRQRFSFITHLQAANCR/ EAQ/RSTPRAQKAIVNHPSAAL MALRRGSRNLVFRDFTDEKEG PITKHIRLTAALILKNIGKYSEC GRSWPRASRYQQGHQDLFILRS DLPSQVFIRDKLMERRNRRRTGR TEKARIWEVTDRTVRTWIGEA VAAAAADGVTFSPVTPHTFR HSYAMHMLYAGIPLKVLQSLM GHKSISSTEYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS

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8264	38632	A	8320	189	4419	KPGLFP*RVY*EYVFRLSQLGE FHQF*FKRGQY/ATTSSPPFSPW ANIIRKATRC*CRWRFRFIMPV MASMSA/GMLNELQQYCDEW QGGAAVVAQHVAPPPGIVEIDS EKFACQWLNAHFEVNPDCSVS RAEMYSEYLSTCSKLARGGILT STGFYKCLRTVFPNHTVKRVED SSSNGQAHIVVGVKRRRAIPLPI QMYYYQQPVSTSVVRVDSVPD VSPAPSPAGIPHGSQTIGNHFQR TPVANQSSNLTA
8265	38633	A	8321	27	674	GPQNTMPPPSPSVRVQGPNSS QPSPFSGSSQPGDPMRKPGQNF MCLWQCKKWFQTPSQVIFYHA ATEHGGKDVYPGQCLWEGCEP FQRQRFSTHLDQKHCSKDAL LAGLKQDEPGQAGSQSSTKQ PTVGGTSSTPRAQKAIVNHPSA ALMALRRGSRNLVFRDFT\DEK EGP\TKHTPTNSCP*Y*KISGKY SECGSADWLKETMENNLSA
8266	38634	A	8322	16	341	PPGRGSAHPAARQLQTPGSAAP LS*HQGPASRGTPPGPIKARAP SKSRARGLRAAQRARLSARAR AGCA/PP*ARGAARKLGAPGTF QETLPPGTRDRKCCSGDAVVH
8267	38635	A	8323	1	400	MAEGMAMLRWTRLGTWPDDS FDEMDSLAVQQYTQQNIR/AQ DCSNTDKNLEPPEGQDADCHG F*APRWHCSASYVASSEFAGDD RRI*IPLDPWVKKFCECWCSGPT PFRE/CPRELN*HLKDGCSCRYL RARN
8268	38636	A	8324	3	179	ISWSPSLLGQTAALCANGAGP AGTPPGRGPVSARFGRRGAAC VCSPSPSPLAPLSR*RFVVMW WQEA*RRGPRLPLLSSLPAAAG SGRAARAAAELPGGGRAGAR/P L/LLTPAQVQGESARG/AGAEG GRGTPGP/GCPLPAGRSLCQPIG PRSP*TAALCANGAGPAGTPP GRGPVSARFGRRGAACVCSPS PSPLAPLSR

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8269	38637	A	8325	1	1744	DFQERLSMKDQLIAQSLLEKQQ IYLEMAEMGGLEDLPQPRGLFR GGDPSETLQGELILKSAMSEIEG IQSLICRRLGSANGQAEDGGSST GPPRAETFAGYDCTNSPTK\V EAPGTES/DPRLPTVLESELVQRI QT/LSQLLNLQAVIAHQDSY/V ETQRAAIQEREKQFRL/QSTRGN LLEQERQRNF/EKQREERAAL EKLQSQL/RHEQQRWERERQW QHQ/ELERAGARLQEREgear/ QLRERLEQERAELERQ/RQAYQ HDLERLREAQRAAQPSP/HPPSF NGEGLEGPRVSM/PSGVGPEY AERPEVAR/RDSAPTENRLAKS DVPI/QLLSATNQFORQAAVQQ/ QIPTKLAASKGGKD/KGGKSR GSQRWESS/A*AGPPLRLGLEG ATGQALAAAGSQEIRDTCAILW RGNQKAQLASWLRPPHTGPVW SPGPKLR*STLHLLSTLKTGV WPGALERARARRQRSLATWD QHSRTGTASFDLKQQLLNK/L MGKDESTSRNRRSLSPTCPGRH SPAPPPDPGFP/APSPPPADSPSE GFSLK/AGGTALLPGPPAPSLP/ ATPLSAKEDASKEDVIFSKRAV TQANH
8270	38638	A	8326	147	536	WAQEGSGRNTHQQYKILDVML KGLFKVCAGRGQLMAGPVFDL GTDG*TGVLKDG\WSALRPV LRTTRSSLAAPSLF/YFHDNS NWNLLIRWGISFCNQTVFNQ GPHSPILSLVRTGVEVAREPSVG
8271	38639	A	8327	59	339	
8272	38640	A	8328	43	510	LLLWGGRLRELTIMVEDEGEQM SIWVLDKDLGAPHLVLVGSML TARSRCWTPWRSSHATAATSE GEGWGVGVLIADRPGWASDEG DGEgggggLLTSAEFGELAAV GEAGSAHPMFSFRPRYSTWCLT HIGQGGLELLTL*STRSASQSAG VTGMSH
8273	38641	A	8329	98	493	FFYFLFIYFFETESRSVTLAGVQ WYDLCSLQPLPRLKRFCSLSL SSWDYRHPPHPANFCSFLVVT GFHHLGQAGLELLTS*S/IPSSAS QSAGITGVSHHARPGPLSLANN PRSQTRTSATVCPEQLGLD

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8274	38642	A	8330	3	328	HSAARRPSSRRSSPRPETSCANS VNAGWNQDPHTVIRFRSMAT AGSTRYR*GLHAAPSPHPRRP RSPPGAE*A/RREARSLKR*SPPC HPTKKATMCRCIIYVPLIHK
8275	38643	A	8331	24	593	FEQQWGWAAAAAPGKAHTR *TGRSPHRPHRTQPR*NPSGTA APGPVPS*AGSSH*AGSG*RAW GPGSSRR*RSCT*RLRSRGRPPR *GPSRR*VRSARPSRA*RAPPGS HRPGCGAAAPAPAASAPARAP WAGADSSAPRTAD*SLPTRVC CSLSALHTGSESGDLGPGTQIEG KQNYSVTVWFLAR
8276	38644	A	8332	24	832	FEQQWGWAAAA/CSSRQSTYSL RTGRSPHRPHRTQPR*NPSGTA APGPVPS*AGSSH*AGSG*RAW GPGSSRR*RSCT*RLRSRGRP/TS MRAFSPLSAIRSPKSGRDAHHQ ASHRPGCGAAAPAPAASAPAR APWAGADSKRASSYSRLEVLR VIPEAAAWTSAGSFRT*/PENLPI PVNEIMLLSNCPGRMGSVPLKR RLILGVRVLGERGPGAWCTCG PPTSMCTGALDLVSWAGRMP WASQRR/PQGDRVRDKPGTCFL PSAVPVLPCV
8277	38645	C	8333	153	269	
8278	38646	A	8334	615	1275	QKRKTFNTTKCYNKEKGSWPR WPTGSS*CAQLSWRGMEGTSK YRTF/ILKHPGQEIPSEPTPPGP/S SLTCRATWSLSRAAPQPHMKPR EP*ILSIYVAPSPSTIEKPSIGERF AIFITLLMRNGDLGEASCDVAK ALRQPWGKAQVEKNQLSQTCK PAMWHFESQNPALLIVRECLEG WKAYPQSTKEERLLHPEEGAG FTSSSQEKYVRVRGQRLWPTPF FSLQMIDRKERHLIPPNVHKR GVGQDGRLEAVSVHSSHGEEW KGQVNTEPSTETSRSGDPIMNP LHQGLKSDMQSYMESQQSSPS ATHEAQGALDTQASWKKQQQ LRKSRRAISSPQADGVQHGHEA RHCHDVLKRDRQTSWPCKMSS LAEEVVAADTWLLDNGTMQA TGRAAQVREQKGMDLGQYIS CYLMTLSRAIKQKENKKVCFQ RLGKPRVKTASVQKK

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8279	38647	A	8335	423	998	PPSAVPHDHSSPART*PQSLSVI TAELEPVRAPSLIAFFHGHSA MCPFRWYRSRFSCLKQQRILAH PVNTFGIDRRHTIKFCLSAKQRP YPTITIRWQLSDNMVYTEKH IRI ISVTAAAIHPVIGSFPIPG/PIRA RALSTFLPVHIQRLL*GVHFPSF SCRAGAGVL*SASWRQQVQQRQ EQPVLRRRQQ
8280	38648	A	8336	2	218	HPSPSPGLKHRSSLGSPVNP LL LPSGSFSLLPAGHSHGDGPSAS QMH*FQNQTHPVP*PDPASLPA VQSHQ
8281	38649	A	8337	76	129	
8282	38650	C	8338	1	410	
8283	38651	A	8339	651	741	
8284	38652	A	8340	1	612	
8285	38653	C	8341	1	729	
8286	38654	B	8342	1	313	
8287	38655	A	8343	705	990	TRSSCWGKEASLGDGNRGVVA ALHHFTGAAARQHSGSPLERGP HPQL*SPRS*VEGHWLEI/LQA* S*VLPQKQPHQPARCWQLLSH WLPRPALLC
8288	38656	B	8344	1	588	
8289	38657	A	8345	220	678	MNAIPVASPCMVCSLIVHVLGS RPM*PW*RPPTRFQWSEVQE/V MELTTMRPRQPPPPPPPP*QQ QQQQQQQQQQQE*L*LAATPR APGTLAQGSLTPSQIFSA*RLKT DAAGSP\GSPQTITDAELRVTLT VEGKSVPFWAVLPQSFTDSPH
8290	38658	C	8346	1	411	
8291	38659	C	8347	1	534	
8292	38660	B	8348	1	774	
8293	38661	B	8349	1	705	
8294	38662	A	8350	1	297	MPGHQKAPLRPAVSKK\ESMLE KGKIK*LLKPEGILPISEPPSNRIF ACWGKPAWTACCNLSLRARR*R AISCCPSHW*KEKPPWRPIRKP PP LPAWPIH
8295	38663	A	8351	616	988	DPQLQAGSGHIPGRNVCPGERI CWRGTPD/SDPSTPTY*PPLEKE VAQGRDLIHASGCLWS*IPLEA LQGPGGCPQFSQVCCIPVIPTVE MKQGRQQLASDFQDQDLEFY EILSWKPGILIIPP

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8296	38664	A	8352	1	1668	MELVPEEATAVSARAYTGRWP LDAAARTILVTAPGVGHTNIVL CGQASLDAYIKSICLKKEGRKE GKKKGRKERKRDYGGKEKK RKKGRKKGRRKKEKKKKEREK ERRKEEKEGKKRKKEKERKKE KERKKLSIGKGVVYCLSSNTQK KQVSQTKIRVISTILFILAGCIVF VTIPAVIFKYIEGWTALESIFYV VVTLTTVGFGDFVAAHPSDHL CWVIVTCKGKYLLPDSPQEKAT DFSGVAQKRNEPQKPL/IWC/W ELRSYPTALMMQERVV*KEKP KAAAPNRRGLGTEKLEF*R*EV AAAVEPHAVLSMIGDWLRVLS KKTKEE/VCRPPLFKSPSPNLRL LGVAHHVGEIKAHAAEWKAN VTAEFRETRRRLSVEIHDKLQR AATIRSMERRRLGLDQRAHSLD MLSPEKRSVFAALDTGRFKASS QESINNRPNLRLKGPEQLNKH GQASEDNIINKFGSTSRITKR KNKDLKKTLPEDVQKIYKTFRN YSLDEEKKEEETEKMCNSDNSS TAMLTDCIQQAELNGMIPTD TKDREPENNSLLEDNRN
8297	38665	A	8353	1	418	
8298	38666	A	8354	251	394	GAQVPTLLVGVLTVTISTVQNL AISLLGKAK*GEGILSVSGRMY RVL
8299	38667	A	8355	107	250	EEGHHLLDPRMVDPMMACTM QLEKLQTLNASL*KQLGGGLYL AKPQG
8300	38668	A	8356	331	893	SITENCENKNPIPHVENKDITGK YNSLKLPEHIRAEVMQPSKLD* VNP/LPSTCKERFVMQSHLART VGSSICNL*MSP/CFGIW*QLAE ANPAKCFP/GCWKTNSTSSML CSKYVTPNGTVV*ITREGPISDD SILRFLLSMETKRMQGLLVSTA QPKGHQSSYQLHKGPEHIERS SSQPPVAAFGEH
8301	38669	A	8357	2	416	SGFRYGSDIVPFSKVDEEQMKY KSEGKCFSVLGFCKSSQVQRRF FMGNQVLK\PFMEDLRQYMFSS LKNSKKYAPTEAQLNAADALI DSMSLAKKDEKTDLTLEDLFTT KIPNPRFQRLFQCLLHRAHPLE PLPSIQQ
8302	38670	A	8358	1	2130	
8303	38671	A	8359	1	1152	

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8304	38672	A	8360	1	320	FKGTAAPWPLSFARAAAGRQA GTDTRPSLRVRFPRERSARQKG RGRSVRLSAKSPPAKVETKPSG GSRTA*IFRQRSKQGKMGAKG KQAKWLLILRALICFSLSER
8305	38673	B	8361	1	1231	
8306	38674	A	8362	1	2276	GGRPKRLRTGNMVRSGNKA AVLCMDVGFTMSNSIPGIESPFEQ AKKVITMFVQRQVFAENKDEIA LVLFGTGTDNPLSGGDQYQNI TVHRHMLPDLLEDIESKIQP GSQQADFLDALIVSMDVIQHET IGKKFEKRHIEFTDLSSRFSKSQ LDIIHSLKKCDISLQFFLPFSLG KEDGSGDRGDGPRLGGHGPSF PLKGITEQQKEGLEIVKMVMIS LEGEDGLDEIYSFSESLRKL CVF KKIERHSIHWPCRLTIGSNLSIRI AAYKSILQERVKKTWTVVDAK TLKKEDIQKETVYCLNDDDETE VLKEDIHQGFYRGSDIVPFSKVD EEQMKYKSEGKCFSVLGFCKSS QVQRRFFMGNQVLKVFAARDD EAAVALSSLIHALDDLDMVAI VRYAYDKRANPQVGVAFPHIK HNYECLVYVQLPFMEDLRQY\ MFSSLKNSKKYAPTR/EAQLNA VDALIDMSL\AKKDDEEGQTPL KDLFPTTKIPNPSIFRGLFQCLL AQELLHPR\ EAFYPPISGRHIWE YAGILPAEGGQRKSSGFPLS*N* RTLFFL*FEAKEKGFKWTAQGI FQQQPWKVGPTAKKLKTGARG EPTFSVSSLAEGSVTSVGSVNPA ENFRVLVKQKKASFEEASNQLI NHIEQFLDTNETPYFMKSIDCIR AFREEAIKFSEEQRFNFLKAL QEKVEIKQLNHFWWEIVVQDGIT

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8307	38675	A	8363	624	1992	GRKVVVVLPPPLGNQSTPGGIC LSAQLPL*RD**SASARCSSPGS *TSPPSYFLPDPRGPGRALQRF RSPSSPGGNPA\SAAPSPRSKLLL GPPG\AAAATAAAAGAKPELRH RLPPSSATTASRVACHFLLAS AAATPAFSPPPPP\PASPSQRT KEVQRAGKAAESCPAAPELLGF GGSRDSAGELGGLSSDACV/PD SSEPGVRRPARRRTLAAHALTHA STHTRTLPGSCARVAVPVALCK GGFT*PIFSPQYVTNTYPGEEGA RLGVLLIGREQTVSAILLGGSRSK APTTTVAVASAPPVTAAGR\TP HASIRIPRMLSKPSPPQAL*K GVMAQAQCPPARRGQAGLEGT \GFGKSPTRPHQLTAASSPCNGL IRIRQGQGGGKGRRWRGSSGDP GAWYCFRGRRRGPSCPSLRTAT LIPGLGGHGGSGDAASPLLGT RDGGPEAHLGKE
8308	38676	A	8364	123	248	
8309	38677	A	8365	1	540	MLEALGALNKPESSRPLIPELHL ASTAAANLGEHPNQRLKFAS QETPEESANAVPHYHKL CNRVS HVWGNRRGQHIRTMDNRP\A GKTTFV*IIVSPLALLALHLSW DSQVRPAVL/QP/YSHGTGTP*W RSSSPCAASST*KSPYP*CH*QR LSQSPSA\FRPTLRRLSRSTRCS WRRK

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8310	38678	A	8366	31	1429	RETRSCWAHYHAESSKHQKAK LKDSRKARRSIELIGPGSSQKGG DICSLIHLSSKLGILCYSTGNM GGWEGGMQLRVSSSENSMGKSS RERAAADLPQGSCWHELPGRLI NTRISLKPRHVWNLSSVLCQVV KKVKSMQMFHMPITSAMQGD RLGICVTQFDPKLLERGLVCAP ESLHTVHAALISVEKIPYFRGPL QTKAKFHI TVGHETVMGRLMF FSPAPDNFDQEPILDSFNFSQEY LFQEQYLSKDLTPAVTDNDEA DKKAGQATEGHCPRQQWALV EFEKPV/YLPSAVPGDWLQARC GHS\PNTCRLAFHGQSCSTG*RT GTTPTASCPG*RCTS*STSMGLV ERAMDDYSVIGRSLFKKETNIQ LFVGLKVHLSTGELGIIDSAFGQ SGKFKIHIPGGLSPESKKDPDTP PSKTGPGWPVGGQPGRRRSPSG ANPHKMGWLTRPFKRYVFDTH KRMVQSP
8311	38679	A	8367	3	119	RSPREGGGHRGPSSGGGRCRRR PGWAGNEAM*PDRRARVVGIE VPAAEEGGAAVAQDGLGMKR CSLLRDLL
8312	38680	A	8368	3	389	SFATHTAGPQPAA/PAPKRMA ARASWGRNPPRAPVRTSAAAA RAAGTRRPAPARVACPLPAGPG SPRRPPRAARTRRARRRPGPGR AAQQSAGRRWTPAPAPSGASF AAPAAGSASPPSHRRSAPGGGS TQSSLLSPSSSALHSSPPSRPWA ARHERSSWS*/PRALPPTSTEP/ GPGPRRAPVLGTRSCGRGAGQL E*EA*GAA*APPPLGWTP*LLCV HVTLGNAVSHWVSCGAAPPHG GVGVGYRARSREGGGHRVPA RTREVPPSPRMGWNEAM*PFK* VSSRWPLRLPSRGMAAPRGA AAGGARRVEGWEGASLLSGSA PGSARWPRAAPAPASQVGARC AAGAPCPLRPRVWRRGAVGAE NAPSELAASPAG/GGRGAGSG SSDLAGRGA VAARFPGG*GHSR QQHGAEKDGGQGFLGSQPPPR SCAHQRRRGACSGNAAPSSSAR RMSASSRSRQPEKATQSRNSNA RSSAARPRSRSTAVSRAQVDTA SSCAFWRVFCSSCRRFCESAEP TVSTRWW

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8313	38681	A	8369	3	1130	LDFQHHINYKAMRKLMKQVQE QCPNITRIYSIGKSYQGLKLYV MEMSDKPGEHE/LGYWHGEW GEVGTGQGPRHEPAASPHVSPG EPEVRYVAGMHGNEALGRELL LLLMQFLCHEFLRGNPRVTRLL SEMRIHLLPSMNPDPGYEIAAYHR GSELVGWAEGRWNNQSIDLNH NFADLNTPLWEAQDDGKVPHI VPNHHLPLPTYTLPNATVSILR AAVEVLWGADPCLCLLPLLTCP IQVAPETRAVIKWMKRIPFVLS ANLHGGELVVSYPFDMTRTPW AARELTPTPDDAVFRWLSTVY AGSNLAMQDTSRRPCHSQDFS VHGNIINGADWHTVPGSMNDF SYLHTNCFEVTVELFCDMFPH ENELPHEWENNTDA
8314	38682	A	8370	1	2229	MWGLLLALAAFAVGPALGA PRNSVLGLAQPGTTKVPGSTPA LHSSPAQPPAETANGTSEQHVR IRVIKKKKVIMKKRKKLTLTRP TPLVTAGPLVTPTPAGTLDPAE KQETGCPPLGLESRLVSDSRLE ASSQSFGGLGPHRGRLNIQSGLE DGDLYDGAWCAEEQDADPWF QVDAGHPTRFSGVITQGRNSV WRYDWVTSYKVVQFSNDSRTW WGSRNHSSGMDAVFPANSDE TPVLNLLPEPQVARFIRLLPQT WLQGGAPCLRAEILACPVSDDPN DLFLEAPASGSSDPLDFQHHNY KAMRKLMKQVQECPNITRIY\ RIGKSYQGLKVYVEMSDKPG EHELGEPEVRYVAGMHGNEAL GRELLLLLMQFLCHEFLR\GNP RVTRLLSEMRIFLLPSMNPDPGY EIALHRSS*LVGLSEGRWNNQS IDLNHNFADLNTPLWEAQDDG KVPHIVPNHHLPLPTYTLPNA TVAPETRAVIKWMKRIPFVLSA NLHGGELVVSYPFDMTRTPWA ARELTPTPDDAVFRWLSTVYA GSNLAMQDTSRRPCHSQDFS\ NGNIINGA\DWHTVPG\SMNDFS YLHTNCFEVTVELSCDKFPPEE* ICPKEWE\NNKDALLTYLEQVR MGIAGVVRDKDELGIADAVIA VDGINHDVTTALGPGIHWRLA* PPGD\YMVLDLPSSEGYHSVTRN

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8315	38683	A	8372	409	517	HFRSAGVCW*PPPLSVHGPR*H FRSAGVCWSSTPDPVCLGITSR GCRTAKIAAFSFL
8316	38684	A	8373	957	1230	
8317	38685	A	8374	1	2658	MVEEVLLDNILKSVFRLGSILPI TFSFPSDSQGPLLQVCRSLLEIH SRPCLPGYHQWRLQNSKDCCCL FLPLEASSQRGTCQMPAGALFY KVSVDPFWEVSSSQETWGSIGI LRRQSVPYQSSSAVLGDLLFSS EPACKNKSAEAVPTAAPSPRDA LSREESREAVWPQRLSHAPM GSAQLELPGGFVYTVRRKLPTQ ASVMLDAPPATKLEHPRSSSDC CVGSKNFKPVDLSLLGSMGVG SVELDHLAPWLQPPFQESERFC LSGVPVSPPLSEEINHALPKATV MASLGAVARKDNADSLHVPPP TPLFASRPVTALKYWQAPREDL QPFTTRVTLHWGKGNDQTFWGL VDTSSSELTLTPNDPKHHYGPIK VGAYGGQVINGVFAHIQLRVN PMGHWTRPLVIFVPERKISIDI LSSWQNHIGSLIGRKTGDSWR MTVGYRKLNQVVTPIAAAVPD VVSMLQINPSPSECLKMSHQI TMRPELPIMNWVLSDPSSHEL YAQQHFIIKWKWYICDRAPAGS ESTTSPFITQWVHEQSGYGDRD GGYTWAQQHRLPLTKNDLAM AT/AECPISQQ/QRPTLSP*HGV/I PRGDQPATWWRVDYIAPLPSW KGQRRFFTRIDTYSYGKFIYPAP NASAKNTICGLMECLIHCHGIP HSIASDEGTHFIAKEVQQWAHA YRIHWSYHVPHHPEGWGKVLQ
8318	38686	B	8375	1	3258	
8319	38687	A	8376	3	196	DWESCQNQC*PQQPRLHGTHW DPC*DME/CPSVCPQSPCPSPLR DQWTIPCPDPLSPQTMAAGR W
8320	38688	A	8377	248	423	
8321	38689	A	8378	407	683	LSSYCVHAGCYPREAAARMISF SPSQ\RWKPFGESWRPPARRGT CTPGAHPRPSPRAAGPAHRP/ PPP/PSELPRAPQRPGRNRRPG NSGPV

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8322	38690	A	8379	11	888	TGKLHTSVICNSTELTSWDSRR LFLKGKPLLSAGAGVNVMPST APFPAPCKGSLRGNPSRPTHPS/ RSPQLERDTGGASFRVDEGEER GASSGGS\RDTEGGSGAVPFGE SWRPPARRGTCTPGAHPRP PRAAGPAHRP/PPP/PSSELPRAP Q\GPEAPTLGQPHGRGLFPPLFK LSKLYWPLGETRSRPRPRPYCQ SPGPGVTERGRRWSAPRAPGAP RSPRWRRQSGPGALPRPRVNPC IQHGSEASYAPAL*WALRIPQG GNTSSADEPADFTPNQQADQM PCLHSCSCG
8323	38691	A	8380	1	3135	
8324	38692	A	8381	44	2279	RQTVGDAQPHHHPPQPPRPSFP PFPALPCTPAPQLPPSPSCLREEF PSSPMGQTPGTWSSSGGPWTSP PHSSSRRLASPLAPLSVIPSTSQT MARSSSQSQTTRFSPTPHSQQ ASQAGTLWPWWLRSGTMLTSP LVGGPHFIRNTRRSMVNTAC*S SRPSLGLERSQTTGATRPGGP*R SRGSMPTPILPSGPSGATPTKPS SPRTGAGPMPCFSTRAVGCST WPSAQATRCSWASLVEMAISK TAH*CPSQCGRGIALIDS*IPTQA SKGCSSTGYTGKKGPTTVSSAC SG*RASLGGPAGAGTRSPALVP GSRDDGTYSNPSA*VAGASA VGSCAASPLGEEACAAATGPGE SFSEGWHEQ/TSLAVGPGTGAT ELVLPLEG/HSPTSVPCTSRGGP TWAVATYRPP/SPPGCSGTPTSP PWMVSVTPSMGWGTSCWSGP KTGTPPSCFRAAPPRLAQPRPPT SSPLRLST/ASSSLGPVTQWLL EPHDAIRVLLDNQTVTFQPDHE DGGGQETFNATGVLLSRNGSIG SRPASTAGPPSR*SRSPTSSTPPP ASRPSTRTARRGSWGSGITIQR TSGCPMAPPFPQALRRCFSTL E*PGRSTGQASLARGMTSCLPT SPLFSTHNCKKTAPGLNI*SPTV TEIAHASMTWPWCATQASDFTR GKSVKTTSRRTPPSISTRPPSMV VV*LKPTRGRPR*FSTPAMLRM

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8325	38693	A	8382	1	2900	MVWGFTCSTTATLEGQSTAAS SRTSNQDISASSQNHQTKSTETT SKAQTDLTQMMTSTLFSSPSV HNVMETVTQETAPPDEMTTSFP SSVTNTLMMTSKTITMTTSTD TLGNTEETSTAGTESSTPVTSAV SITAGQEGQSRTTSWRTSIQDTS ASSQNHWTRSTQTTRESQTSTL THRTTSTPSFSPSVHNVGTVSQ KTSPSGETATSSLCSVTNTSMM TSEKITVTTSTGSTLGPNGETSS VPVTGSLMP
8326	38694	A	8383	3	468	SSPPLGHPRPISQSCRPVAVSCSR GPSALLCRPLLPEDAP/P*GSS WP/EGPLWGPRYPVS SVGNH WSGAGVADE/PAAPSRPAGARR APSGGRPAAARCSRRRASRSSR PGPPAGRAGR*ACPAARSAVA AAPRPPGAP*CGSASSATAPAA APP
8327	38695	A	8384	3	1319	DSSRLCSRRSSRGHTVGLWGQS PGLGTKGRGGGG*EDPPGTPR GQDPSHSAKQ/PPAGLPAGVK WGPS\SSPPSPPP\PAKRELQGR PKFGRCEGRRAGDPGPS/GCPR AKQTHSLGTAVPVVVIYYPVH ALSPAANRTLN*NIISSQPLGTPP MVPGE*HGPRGHA*PRHPLPK DPPQG/PAQR*RGCRSEVQRRP GTLP*GSPP/GNSHNLGAMP PPR*PPTAR/PQFPNPQDPRPLGQSSS EPLPRCPKTLCKTRHPDLRGRG KQPRGWAQVPPGEVFGGNGA QLEA*EGARMSASP\P*SLESSD TTASPPSQGLFTAQKGLWGPQR RLGALWLGRRESEKTSWRRLQ SQVYWSCREEVEKCSRQGARL GQRRGWENVLGKSGSASECLS CPFCASLLAMPSGCPWELSKVA QCFPLKTGHPGPQEGSNNLKV TQQS

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8328	38696	A	8385	1	771	HSLIHSLTHSLPSPVQSPA WLR PLCLSAPAT*ATA/CRVCLPGSC DSCSDSWQVDDCPESCCEPPCC APSCCAPAPCLTLVCTPVSCVSS PCCQAACEPSPCQSGCTSSCTPS CCQQSSCQPACCTSSPCQQACC VPVCKPVCVPVCCPVCCKPVCCKP ICCVPVCSGASSCCQSSRQPA CCTTSCCRPSSSVLLCRPVCRS TCCVPIPSCCAPASTCQPSCCRP ASCVSLLCRPTCSRLSSACGLS SGQKSSC
8329	38697	A	8386	1	453	AQSLGRARPWRGASSGRVPDS\ RLE*TPTVCLA/PEHGIVAATAS LGTFPLTQWEGHNGCYQRS LFP PQSMPTPPCPASETP/PVFRYRPP PSPGSSPRSITAHVPVLGS\SVNP PHPEVWNL PCTWKRLATSLQQ KFTFGPKLGITNVDSDSL S
8330	38698	A	8387	39	630	IGTWRFGGSDRQEGQSRQGN C EANDWPVSTALA\KPRGATGK NKSPGNDPAAA IATAGAAATA GPGSPCSLQN/RPHLLPFIS*APP EG*TPSTQDRPWYSAGAA*ASV KCRTGAVQKQLL*NR RRFPGS PAPAQTADPGRGGGRGTGS/GV PSTGSSSDWQERPWP CGGMEPP RLRCLLRCSGSIHSPTALQSLRN HQ
8331	38699	B	8388	1	2673	
8332	38700	A	8389	10	281	TTSDPYHPAPEIGLG*SPN/GGP MQGDLPGASGKEVSFL*GNVN EDIHNSGCVWQPSCDHLARQP KNKAVTMETKKRQKDTGSSLF SSSCS
8333	38701	A	8390	3	416	EYGQQCQCHKRPRGPF GFHSPG PRGGSYISDL SGQESPEAGGGFP PRISALRPKSNCSFLRPRGRGS* YPAAGRPRAPGGPALQLSPR/PH PAAPPCRAAPQPKPPRRDVEPA P/PKLHPPP/GGPAPRRQGQDLP GRLQP

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8334	38702	A	8391	98	1286	TMPPTRFLAHLPDQAYVCFCCV EGKERNLSRSKHTSPHSSTPAH LLSKPPRSSEVVYHSQVLPGTP RPTSQLHLELVLPVFARLPGHR GIEREQSSPYS/RRGHHRGYTEE D*VNS**DGVEPYGKVAAAAG PQRGRGYCCPWRRQRHGRHR/ RRPPIALQRRQ/PARTPSARPIA LQRRQ/QARTPSRPPIALQRRQ RHGRHRPRP/RHRSAEKTART PSRPPIALQRRQRHGRHRHGH/ HRSAEKTARTPSRPPIALQRR QRHGRHRPRPIALQRRQRHGR HRPRPIALQRRQRHGRHRPWP PIALQRRQRHGRHRPWPITLQ RT*RHRCHRHGHPL/PLQRT*Q HGCHRPWPPIALQRT*/PAWTP L AMATHRSTKKITAWTPSRPPI ALQRT
8335	38703	B	8392	128	457	
8336	38704	A	8393	348	1355	GNEGKAGTSSCWDPKPAAPAV ASSLAS*GASNSTPSAAGSTVA SASWLVESWSPGVTVVGVTEG SSKLGPMLLSTSTPDEAWSPESS CLLLVAPGVWLLPEAGFLLGIH SQGAAPPSPSSSCFSTSSFSLS SSSSSSSLPMATPCDLGFSKCG SRLSPPAKALLEDALTPRGA* AWMRDRASIGADPVWLCPSLP SSFLCFSKAVCTSSA/PPCYTT GFLSPTQKTKPSKQGLGVCSSQ VSRHPALGQLLQDIAEDKSPPH SGSTICSLWLSSSRAPCDRCTSR PSSKVQGYLCQQDSRSRTRAG WKTPTVVGRHVPVKIEKESIRP ANFG
8337	38705	C	8394	154	219	

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8338	38706	A	8395	3	1054	LYLKVCYI*KELFEFSNLYKHPS GEEVWERILRV*DNGGRNI\KL YQAEFIDLGPVSRDSAFNVAAQ GVKKGSNRLFPWLAEIWITRWP TVSELEMPDLPWFNVEEGIKRL REIGMVEWISHFRCTHPSWKGP EDIPLTNALQNRVRAAPASLK SLVIAL\FCMSDATAGTAVTQL QNLNTMGHIGSRGVRDQVVAL NHQRQVGVANRQGTTPR\QRGT KKRTR*PGQAKRPGPKERGTRS HAYAHTSVTTPKNNRHDTSPS QRTTPQQKRDAQHQETETPNTTP NTSRPPSHVSFFRSKKRRRRPQ HEERNKRTRTEEEARERNRAN KDDTKRQPPKKTRENNRQLWS
8339	38707	A	8396	140	398	
8340	38708	B	8397	15	192	
8341	38709	A	8398	1	1167	AGTARRAPESSRRRAVAAGHPE TMGKLVALVLLGVGLSLVGEM FLAFRERVNASREVEPV\EPENC HLIEELESSEDIDILPSGLAFISS GLKYPGMPNFAPDEPGKIFLMD LNEQNPRQALESISGGFDKELF NPHG\ISIFIDKDNTVYLYVVNH PHMEVHCGRIF*ILREQRSSGY YL\KTIKTWNFFKSVNDIVVLGP E\QFYATRDRHYFTNSLLSFEMI L\DLRWTYVLFYR\PREVK\VVA KGFCSA\NG\TVLSQTQKYV\Y V\ADVAA\KNIHIMEKHDNWDL TQLKVIQLGTLVDNLTVDPA\T GD\LAGCHPNPMKLLNYPED PP\GSEVLRIQ\NVLSSEPRVSTG YANNGSVLQGT LWASVYHGK ILIGTVFHKTL YCEL

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8342	38710	A	8399	89	1685	KGPLLLSLPCRAGAMAETSAT GACGEAMAAAEGSSGPAGLTL GRSFSNYRPFEPQAFGASSPS\W RLDGA FSGNERAEGCKVPQEG RLLKLLAG\LTRP\DV RPP\LRG \LVGGQEEASQEAGLPAGAGPS PTFPALGIGMDSCVIPLRHGGLS LVQTTDFFYPLVEDPYMMGRIA CANVLS DLYAMGITECDNMLM LLSVSQSMSEEEREKV TPLMVK GFRDAAEEGGTAVTVGQTVVN PWDLLIGGVATCSIANQFEF\IM PDSAVVGDVL\VLTKPFRNPGL LFNAHQWLG*FLERWD*S*RW WFSREE\VEL\AYQEA\MFNMA TLNQNC CRV*MHTFN AHAATD IT\GFG\ILGHSQNL\AKQQRNEV SFVIHNLPIIAKMAAVSKRASGT VWGFFQG TSA\ETSGGITGFCLP R\EQGGLAFCS\EIQLPKYGRGS PKAWIVGIVEKGNRTAPDPLTS PRVIEV\LRG\ATAAVLAP\DSS NALLLSLAREIERTEVVW TLEP LSTITDGSQELIVKKFPKKAACI VVPAALSR

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8343	38711	A	8400	30	2391	ARGRPLLAARSSRPCGPRLPFK RAGPAPAAPHRGDQEARWFSG AAPSRLLPAPRFGPAAIFLSAQ GPPSGAMQPTLLLSLLGAVGLA AVNSMPVDNRNHNHNEGMVTRCI IEVLSNALSKSSAPPITPECRQV LKTSRKDVKDKETTENTKFE VRLLRDPADASEAHSSSRGEA GAPGEEDIQGPTKADTEKWAE GGGHSRERADEPQWSLYPSDS QVSEEVKTRHSEKSQREDEEEE EGENYQKGERGEDSSEEKHLLE PGETQNAFLNERKQASAIKKEE LVARSETHAAGHSQEKTHSRE KSS/QFSAA*EAGSQENRPQESK GQPRSQEKSEEGDEDATSEVDK RRTRPRHHHGRSRPDRSS\QGG SFPS\EEKGHPQ\EESEESNVSM A\SLGEKRDHHSTHYRASEEEDP YGEEIKGYPGVQAPEDLEWER YRGRGSEYRAPRPQSEESWDE EDKRNYPSELDKMAHGYGEE SEEERGLEPGKGRHHRGRGGEP RAYFMSDTREEKRFLGEGHHR VQENQMDKARRHPQGAWKEL DRNYLNYGEEGAPG\KWQQQG VLQDTK\ENRVEARFQDKQYSS HHTAEKRKRLGELFNPYYDPL QWKSSHLERRDNMIDNFLEGE EENELTLNEKNFFPEYNYDWW EKKPFSEVDNVWGYEKRNLARV PKLDLKRQYDRVAQLDQLLHY

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8344	38712	A	8401	73	1922	ILPVPIIP/CRQVLKTSKCPTRQA DLGHCSDPCSYSLHITFPADASE AHSSSRGEAGAPGEEDIQGPT KADTEKWAEGGGHSRERADEP QWSLYPSDSQVSEEVKTRHSEK SQREDEEEEEGENYQKGERGE DSSEKHLEEPGETQNAFLNER KQASAIKKEELVARSETHAAGH SQEKTHSREKSSQESGEETGSQ ENHPQESKGQPRSQEESEEGEE DATSEVDKRRTRPRHHHPRSR PDRSSQGGLPSEEKGLPQEESE ESNVSMAS\LGEKRDHSTHYR ASEEPEYGEENKRGYPGVQA PEDLEWERYRGRGSEERYAPRP QSEESWDEEDKRNYPSELDK MAHGYGEESEERGLEPGKGR HHRGRGGEPRAYFMS\DTREEK RFFGEGHHRVQ\ENQMDKARR HPQGAWKELDRNFLNYGEEG APGKWQQQGLQDT\KENREE A*VFKINHFSISHHTAEKRKRLG ELFNPPYYDPLQWKSSHFERRDN MNDNFLEGEENELTLNEKNFF PEYNYDWWEKKPFSEVDVNWG YEKRNLAR\VPKMDLKRQYDR VAQLDQLLHYRKKSA\EFPDFY DSEEPVSTHQEAENEKDRADQT
8345	38713	A	8402	1	381	
8346	38714	A	8403	1	444	MKLIVGIGGMTNGGKTTLTNSL LRALPNCCVIHQDDFFKVPALA RGVLES LDMEAMLDTVQAWLS SPQKFARAHGVS VQPEASDTHI LLLEGFLLYSYKPLVDLYSRRY FLTVPYEECKW/KEKYPQLHSP *SPRPLRWPRVAHVPEV
8347	38715	A	8404	3	421	
8348	38716	A	8405	3	4065	SAPPDVTITYTSEHSIQVERPQGS TGSRTAPKYGNAELMETGDGV PVSSRVSAKIQQLVNTLKRPKR PPLREFFVDDFEELLE VQQPDP NQPKPEGAQMLAMRGEQLGV VTNWPPSLEAALQRWGTISPKA PCLTTMDTNGKPLYILTYGKL WTRSMKVAYSILHKLGTKQEP MVRPGDRVALVFPNNDPAAFM AAFYGCLLAEVVPVPIEVPLTR KDAGSQQIGFLLGSCGVTVALT SDACHKGLPKSPTGEIPQ

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8349	38717	A	8406	10	580	KQCALLTFICSLPMSFGFAPAIT VTVVN/PRHPLIRDMLRRIKEDE DDKTVLDLAVVLFETATLRSG YLLPDTKAYGDRIERMLRSLN IDPAKVEEEPEEEPEETAEDTT EDTEQDEDEEMDVGTDEEEET AKMS*ALLTFICSLPMSFGFAPA ITVTVVNHFVLCSTGSGVFRS ENWKVWAESSRGDHDCLDL CSVLCWGRATGAFSCPAQLIF AVSSSSSVPTSISSSSSCVSSVV SSAVSSGSSSGSSSTFASGSMFK LRRSILSILSPYALVSGKRYPD SVAVSNKTTARSKTVLSSSSSLI RRMSLSISGCRD
8350	38718	A	8407	1	1967	MTMAAAAVVARGAGARAATA AALRGCGTAARGRPCAGPAR PLCTAPGTAPDMKRYLWERYR EAKRSTEGTKKYTTSLNARHY YTHFTEENEDEINSSSSYASQKK TFEINPRHPLIRDMLRRIKEDE DKTVLDLAVVLFETATLRSGYL LPDTKAYGDRIERMLRSLNID PDAKVEEEPEEEPEETAEDTTE DTEPDEDEEMDVGTDEEEETG KESDDPMAYIHFTAEGEVTFKS ILFVPTSAPRGLFDEYGSKSDY IKLYVRRVFITDDFHDMMPKYL NFVKGVVIRKKLVKTLDMIK KIADDKYNDTFWKEFGPTTKL\ GVIEDHSNRTRLAKLLRIQSSH HPTDITSLDQYVEK\MKEKQDK IYFMAGSS\RKEAESSPFVERLL\ KKGYEVIYLTPEVD\EYCIQALP VEFD\GKRF\QNVVQCKECKFHE S*ENLRK**CKSVEQRISALCLN WMKDKALKDKI*K/ALWVSSA ALTESPVLLLVAQPVRDWSWP TLGE/RSMKAQAYQTGGQHLL QIYYAESERKHFEINPQTPRLIR D\MLRRIKEDEDDKTV\LDLA\ VLV*NRQLGSGYLFTQTLKAY GDW/RLERMLRSLNI*PLMPK VEEPR/EEPEETAEDTT\EDTE QDEDEEMDVGTDEKGRTSKG
8351	38719	A	8408	181	462	GMASASDSSKTGFRGKQVVAG AVGDSAKESQGQPPGAPPRRA AGL/WRRHHCSF*AD*TTNAPG GKNPRPGKGAGGEQGTAGDFT CQMPRTQNTL

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8352	38720	A	8409	3	228	STGVVPSQQNLPLEKASVLFNT GALYTQIGTRCDRQTQAGLESA IDAFQRAADMSPGLTRRSLGP TRWHQGTPH
8353	38721	A	8410	129	311	RCFQPDCHSTPGTGPRRSGCL LSSAAPW*KPPAAPRTPHSRSH NRGPRRQQHARHQDDP
8354	38722	B	8411	1	789	
8355	38723	A	8412	1	933	TVVLKDFILEHYSEDGYLYEDE IADLMDLRQARRTPSRDEAGVE LLMTYFIQLGFVESRFFPPTRQ MGLLFTWYDSLTVGVPSQQNL LLEKASVLFNTGALYTQIGTRC DRQTQAGLESAIDAFQRAAIGP TRGGRASTYEMTPAAS/PEIPGA SLQREE/QWTGAWTHQQIYPQP GTTT*SPPQAQPSRFLFAMDFA ATTSAIGSARPSTNQSGYFHTG RSWQPVA**ECHILRGNAENVL HDLLSH***RQN**NQENLQEAF LPELGHQQEQTEVSQHLVPPIG RGCTASGQEEAALPFQPSQLRQ FLVL
8356	38724	A	8413	1	389	
8357	38725	A	8414	1	506	
8358	38726	B	8415	125	700	
8359	38727	B	8416	19	338	
8360	38728	A	8417	1	3335	MAALWNTCGAWKNMLIPECH SQLLRVAANPKVREQVRLELSF VNSDLQMLKEELEGLNISVG QNTDEDGYLYEDEITDLMDLR QACRTPSRDEARVELLMTYFIQ LGFVENRLFPTWQMGLFTW YDSLTVGLVVSQQNLLLEKASVL FNTGVLYTQIGTRRYRHTQAGL QSAIDAFQRAAGVLNLYKETFT HNPSYDMIPAMLSVLVKMMLA QTQESVFEEKISLPGIWNEFFMLV KVAQEAAKVGEVYQQLH
8361	38729	B	8418	1	1689	
8362	38730	A	8419	2	722	CPGGSERGQRQPCGCRSRGRTE PGFSPC*KSAAPRQAVSLKSASP RPSSSS\GPAGISSPGRESRSCGT QNILGPFQLVSG*PL*GR*CQFP AAAEPVAVPL*AEDISA/GPPAV *AP/SGLAHLASG/PGPLPPLGG AGLV*QSI**GGHQGADEGP*G EMDAKEAGPAAQNCDLHVCPG ARGAEGAPGEGCIS*QPHAPDA L*AASELPKDELLRQCSGG*RC SPAGSAAPRAGSSAVLEPQ

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8363	38731	C	8420	144	439	
8364	38732	B	8421	1	4747	
8365	38733	A	8422	1019	1880	YCCLPRGGNAGCQTRQDPSCRPGPGSQGLSLPPGR\PGAAVECGARSRGWGQQDGPSPSPGKAQVPAEPAPPQT\PGPPEDPCLGPRNEVPDGG/GARQSHHPGPPRSPGPEGGSPQAAARLVDWRVSRPQNQLPNPGP*DQPPRPAIPTATPSGCNPGFPRAPRRLSSEEEAPSRAGPEEEAPPTYTPRLRRGRPARGPVCR/PPAGPPAV*PEFRRFALPRASVSGFQSS\VAAGGAPDPGPRLLGYTDAHGDLPLTNTTACTGPWPAGPRHCASGAEA
8366	38734	A	8423	240	763	VLVARRPQRP GHEPAVLQQ/PAAGP/PVPRKPNPSPSRSPAGLRPPGRAGPLTSPRCPLPAFTGHRTP/VGPRPKAAGPRRRTYQGRGMGPRPRRRPVVPVGGERSHSHPSGPPLRSPGPEWGLTSSSCPARGLEGVSA/TQNQLPNPGP*DQPPRTCHPHGYTQRI/PSGPPLRSPGPEWGLTSSSCPARGLEGVSAPISSRIQGRRTSLPEPAIPTATPNGYIGSGFPAG
8367	38735	A	8424	2	609	PYSISIVSTGPSADSVYTKVRLLEGETLSVQCSYKGYKNRVEGKVWCKIRKKKCEPGFARVWVKGPYLLQDDAQAKVVNITMVALKLQDSGRYWCMRNTSGILYPLMGFQLDVSPAPQTERNIPFTHLDNILKSGTVTTGQAPTSGPDAPFTTGVMVFTPLITLPRIP*PPDLPPRQATASLLPAPPARDPGGPWGPRQ
8368	38736	A	8425	1	252	

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8369	38737	A	8426	3	1581	ALHCAIRHEDKWPTAVRANGH LLLNSEKMSKSTGNFLTLTQAI DKFSADGMRLAIADAGDTVED ANFVEAMADAGILRLTYWVE WVKEMVANWDSLRSGPASTFN DRVFASELNAGIIKTDQNYEKM MFKEALKTGFFEFQAAKDKYR ELAVGRDAQKLVRFIEVQTLL LAPFCPHLCEAHLGHSWGKPG LQLWNCFPWACGRVPV*WKFL IHSSQYLMEVTHDLRLRLKNY MMPAKGKKTDKQPLQKPSHCT IYV\AKE\YPPWATLPPCLFLT V KHFEQQLTGKTGLDNK\AIA SE LGSMPELKKYMKKVMPPVAMI KENLEKMGPRI ^{LD} LQLEFDEKA VLMENIVYLTNSLELEHIEVKF ASEAEDKIREDCCPGKPLNVFRI EPGVSRFLLVN/RPQPI ^{MA} HFL NPKLEIRQGD\TVIPIIRRLMKM NRGI*RPFPKVKPGWRI**SHCW GPRRSSCPWEKEYTREDPPFPE ACLFS/DVDLMSKKIHLTENGIR VDIGDTINLSGSLNSCTLEIYPG FLGILL
8370	38738	A	8427	1	1052	MIKNIGPQYLTPSFLGEQEGDEE EEGHIVDAEAE ^{EG} DADASDAK RKEKQEEEEVDYESEEEEE ^{RE} GE ENDD ^{ED} MQEERNPHRRGARKT QE ^Q DEEVGL/GH*GCPVPSRPP DAAPETHPQPGAPGA\EA ^{VER} R VQAVREIHPFIDDYQYD\TEESL W GQVTVK ^L PLMKINFD ^{MS} SLV VSLAHGAVIYATKGITRCL\NE TTNN\KNEKELVLNTEGINLPEL FKYAEVLDLRRLYSNDI ^{HA} IAN TYGIEAALRVIEKEIKDVFAVY GIAVDPRHLSLVADYMCFEGV YKPLNRFGR ^{RS} NSSPLQQM ^{TF} E TSFQFLKQATMLGSHDEL ^{RS} PS ACLVVGKVVRRGGTGLF\ELKQP
8371	38739	C	8428	154	219	
8372	38740	A	8429	1	1584	
8373	38741	A	8430	200	277	

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8374	38742	A	8431	3	877	LYLKVCYI*KELFEFSNLYKQPS GEEVWERILRV*DNGGRNIKL YQAEFIDLGPVSRDSAFNVAAQ GVKKGSNRLFPWLAIEWIKKW PTVREVEIPDLPLFNVEEGIKL REIGMG*WISHFRPTHLSWEGP EDIPLTRPSQNIFVRAAPASLKS PVIALLYMSDLMVRTAVTQLQ NLNTMGHIGSQGGRDRVAPLNH QRQSGHGYHNGQQRESGNQNS LTGVELWHWLINHVVSRSVD RKPTTFLNLYKQKTSRNGRK TSLNYKNRESRPLNQFPDLSQF
8375	38743	A	8432	1	282	
8376	38744	A	8433	1	281	SVHTGHHHYHHRHHHHHHHQ HQLHQHQHQGGGHHHHHHHH HHH/HYFQ*ATWEMLLWVGHS HL*RQP*KQHEHRDDVSQAGS VCPCASRGFHIR
8377	38745	A	8434	64	302	
8378	38746	C	8435	133	262	
8379	38747	A	8436	1	1962	MFSIPTGQLRAAASGARRHRGR GSIGGPFHAIQGPVETDTTAQH ETVAPPDLAHPSPASRGPRPY/G RHLALDEPFLHISGALF*DSLAV *EPPE SRLDARPGARNSNSRCPI TA/RPPDTDMGTPSAQGA KSSA\ FAQLPPPHNSTRRAPAGDMPPS MPGATELLACSVAG*TSELRG GGFASSLSGSPCKFGSPASSDA WPRLQPRWPVTFPEAQPLEVPG GTEHGCSPWEPLSNSAAQTPFF PPLHPTAPSCPLGLPGSPPGPTSS TGDIPT*DQSGTSKLYCPLQQ GGAEAAHCV/PA/PEQPETNSKR KGETPTPN/DKEGETPTNEKKE KHQQQTKRRNTNTRKEGETP TPNEKKEKHQHTKRRNTNT KRKEGETEPAQGGTNPGRVQQ SPAAL*CFSY*SECQACPSDES AGARFTAGSAPDKGL/PPGPSS WAPSS*HLILATTVHLLVTRPC* PPSCTGPSGHLVVGGRPSAHH HSDLLF*SSAGKPDSWPCWTMS AMGILRPRGRASGAPGSATPFP GEFQEAH\APPVQPSTAQSLPAP CLPLGASGGPRQHPPDV\SRGG DRGLQQSVLSDAAP*PGVRGNP PRGARWGARAAPAGPSAPHS PCQP\PGPRDPLVYPSPGTEAQ MSCLTPQFLQILLCDFE

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8380	38748	A	8437	438	699	LLEGKLTNRKDIHTKTPSVCHH HRGPKVDKTTKMGGKQSRKAE NYKNQSASPPPKDRSS\YQQRN KAGHRMTLMS*EKKASENQTS PS
8381	38749	A	8438	1	1334	MDGRLYSVTIQPSSVLNLQLLL SGPKSAVLVVITILMCSETNLSF NEFSSEFKTTSPEKMSIRKPQEK SADGKQFLQNDKRNPKLGNTQ TLLRNDVSGLLSRTKRNI VPPG WYSVYVTNNYVFKKSPKAKK VSESTTKNDPVKNIHIESHNID LNKIAMNSNLQVVVKRLEDTIS IAKKS WNNQPLSEGYKASKKLI EIDGKDQHADRNM TLTNRMT CKEQSLSKSVVASGNIINSHCM PTVDLNNKRLNLKKSSILDMG RLISSVENVPAKYEGTESSVS YSSPIKLMFLSEVKSSEGVKYTL TSVGTSHSNVVL PSEKPTTHHV TEKTETNEDISNANSENYHSS HYD TDTFQREL NKF SHAKETA GSSTMFIGDINS DKPQE EPK DNS SSATDP SF/NKKTR*TKKNRSPS CETD*ATNWKTTKA*N*SNKH
8382	38750	A	8439	115	523	QFFSLSQALKLDQAIHISMDAF HSVSELFASQSRRLDPAMDLL VLSQGHQTNILDIVHIHKEALT KVTENRQHVAEGKTE/SAEADD VRIT/VNRNSFTTSLEIHHPPI*I RDMKSQMQLFLQQEILFFQKSS RN
8383	38751	A	8440	1	461	
8384	38752	A	8441	3	319	
8385	38753	A	8442	112	480	IFSSLNVAYPWIEKKVDGSKC PIQQQLERKIKNFVLYLK/RLQL TKCEFKN*RLENFIRVNKNEKY VCT/SYHTKLLFNNLHMA LILIV FKYQSFFSLHSCNQPHAKVLE PALELQDEDMVH
8386	38754	A	8443	1	528	

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8387	38755	A	8444	2	811	GIHTRLNSELLKEESNKRLEAE IEYQSRLTAAISKHSESVKTER NVKLALAE*TQDVSVQVKMSSDI SEVEDKNEFLTEQLSKKQIKFN TLKDKFRKKRDTLRKKSLEALET VHNNLSQTQQQIKEMKEMYEN AEAKENNSTGKWSCVEERICQL QHENPCIEQQDDVHQKECLPS RKEKFKSEPPAFLSGNQVKSSS CSLQTLFPDDLILYLENPKDST KKLLELINKFRVTGYKIKLQKS VAFLNDKNEQSKEENQECNPIY
8388	38756	B	8445	1	1581	
8389	38757	A	8446	617	2972	EQNKPYQWLQRKNSKRERSE KKQPQVKEGNNTNKSEKIQLSE NICDSTSSAAAGRLTQQRKIGK TYPQQFPKKLKEEHDRCITLKQE NEEKTNVNMLYKKNREELERK EKQYKKEVEAKQLEPTLQSLE MKSKTARNTPNRDFHNHEEMK GLMDENCILKADAILRQEICTM KNDNLEKENKYLKDIKIVKETN AALEKYIKLNEEMITETAFRYQ QELNDLKAENTRLNAELLKEK ESKKRLEADIESYQSRLAAISK HSESVKTERNLKLALERTRDVS VQVEMSSAISKVKAENEFLTEQ LSETQIKFNTLKD KFRKTRDSL RKKSLEALETQNDLTQTQQQT QEMKEMYQNAEAKVNNSTGK WNCVEERICH\QRENPWLVQQ \LDDVHQKEDHKE\K*LISQRGF IESGKKDLVLEEKSKLTNECD HLKESLFQYEREKTEGVPKKEN EELRKL FELISSLKYNVNRIRKK NDELEEEATGYKKLLEMTINM LNVFGNEDFDCHGDLKTDQLK MDILIKKLKQKFDDLTAEKEAL SSKCVNLAKDNQVLQQEFLSM KKVQQQCEKLEEDKKMLKEEI LNLKTHMENNRRVELSKLQEYK LELDEKAMQAVEKLEEIHLEQ AQYEKQLEQ\FKQGYNTASLNK KELTLKDVECKFYKMKTAYEE VTTELEEYKEAFAAALKANSS

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8390	38758	A	8447	1	2794	AVYLSRGCVCVCIRCISSLLKEPH EEGVMCSFRSVATQKNDIRPDF QLGKMDSKIKELEPQLTILYQN PKTLKFQGGKSVKFALSPSMAL RK*PFKMFSI*SIFIALQFLHGY KPILFEPNQTWPGHVAVWQDT CSIVAI/SANITQKVHPVI/W/SSIP PYGVALSSLTTGTAAFLCTQL GV*IPLDCAQATFISHDKMVISL KGYLFLSSCLGNSLLKYTEKL QEPPASAICEAADKEPPSQKK RVDT/S
8391	38759	A	8448	184	427	WAIAIQRHVVDQEWQIADPC NM**VENAETLPPGPFLNISLES SARRRATSRDDNRRFRPHRSRR SRRSRSDNALHLASE
8392	38760	A	8449	1	903	MAQKFMAPNRARTLRDICTDR EAYPVQESMGSGTRGQRKEDM GGAALSTGEGGARDVKAPLPE ATLCSQMGPTRPSGSLCDLAG STLAGRWMHQSFDGMEAS KLPGQEGVRIQPMSETRRRAT SRDDNRRFRPHRSRRSRSD FSLHLASEREAISRLKDRPPLRA REDYDQFMRQRSFQESMGHGS RRDLYGQCPRTVSDLALQNAF GDRWGPYFAEYDWCSTCSSSS ESDNEGYFLGEPQPAPRLRYV TSD\DCCTNTAPTASPNLPH*VA EDSCTAGKDQRAKTCIISLY
8393	38761	B	8450	1	322	

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8394	38762	A	8451	1	2460	MEEKSKRRGVLWSLLILALKFG DEPPLGSPNSCKYKLTTLKELG WREVFSSLQFCLCTSVASQMLS QYFEYTQPHPGDICHPETCALQ KVFLTSSGQSSSTSSSSQQFVLQ INAIQTILEKTPTHISTPTPTPTLA NPTAVGLEEDREQDVGTTSSRG GAWDTRIKRELEKMSEKCGGQ INGGDIAVFASRAGHVCWHPP CFVCTVCNELLVDLIIFYQDGK IYCGRHHAECKPRCAACDEIIF ADECTEAEGRHWHMKHFCCFE CETVLGGQRYIMKEGRPYCCH CFESLYAEYCDTCAQHIGEAIF GSQ/HWSFC/RCGHLCFGEWG* PQLLWMLC*LELTGKPRDAIMS SLHSWHLRKGVRRRRRKEDK SPEVLP*KSSSGTLSH*R*RPH* SLFLGSRVSLPSGECRGP GPPYS HSLRLYSQQALPTGRGPSSSQFP FCQFYCCYKKSLLCDCLSKSPA LEKAMRGIDQGQMTYDGGQHW HATETCFCCAHCCKSLLGRPFL PKQGQIFCSRACSAAGEDPNGSD SSDSAFQNAKESRRSAKIGK NKGKTEEPMLNQHSQQLQVSSN RLSADVDP LSLQMDMLSLSSQT PSLNRDPIWRSREEPYHYGNKM EQNQTQSPLQLLSQCNI RTSYSP GGQGAGAPPEMWGKHFSNPK RSSSLAMTGHA GSFKECREDY YPGRLRSQESYSDMSSQS FSET
8395	38763	A	8452	2	942	NKNPKNHYPESYVSLKNDFTK LTSRHRHGEQALVQLCHVFV CEHGHVIVTLSSGFIVYRTRAN YSSSAQGVGIAAALDAVLIRA HQRTQGCHHELSALLAFEKGSE KKEEEE GQVSRSSSLKVQAQE LSATEDKGHISPFFWEAVYHYA SGECRGP GPPYSHSLRLYSQQA LPTGRGPSSSQFPFCQFYCCYK KSLLCDCLSKSPA LEKAMRGID QGQMTYDGGQHW HATETCFCC AHCKKSLLGRPFLPKQGQIFCS RACSAAGEDPNGSDSSDSAFQNA RAKESRRSAKIGKNKGKTEEP\ C*TSTASCK

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8396	38764	A	8453	1	937	VHQYYSCLPPEKVPYVNSPGEK LRIKQLLHQLPPHDNEVRYCNS LDEEEKRELKLFSSQRKRENLG RGNVRPFVMTGAICEQCGG QINGGDIASFASRAGHVCWH PPCFVCTVCNELLVDLIYFYQD GKIYCGRHHADECLKPRCAACD EIIFADECTEAEGRHWHMKHFC CFECETVLGGQRYIMKEGRPYC CHCFESLYAEYCDTCAQHIGID QGQMTYDQGHWHTATCFCC AHCKKSLGRPFLPKQGQIFCS RACSAGEDPNGSDSSDSAFQNA RAKESRRSAKIGKNKGKTEEP\
8397	38765	B	8454	214	551	
8398	38766	A	8455	1	1140	
8399	38767	A	8456	1	2525	MLNIQSVPGIGQGHSRYLHSN PMHSGDFISNIHMRKPKFREIIF ADECTEAEGRHWHMKHFCCFE CETVLGGQRYIMKEGRPYCCH CFESLYAEYCDTCAQHIGEAIF GSQ/HWSFC/RCGHLCFGEWG* PQLLWMLC*LELTGPRDAIMS SLHSWHLRKGVRRRRRKKEDK SPEVLP*KS\SSGTLSH*R*RPH* SLFLGSRVSLPSGECRGPYPYS HSLRLYSQALPTGRGPSSSQFP FCQFYCCYKKSLLCDCLSKSPA LEKAMRGIDQGQMTYDQGHW HATETCFCAHCKKSLGRPFL PKQGQIFCSRACSAGEDPNGSD SSDSAFQNAKESRRSAKIGK NKGKTEEPMLNQHSQQLQVSSN RLSADVDPDSLQMDMLSLSSQT PSLNRDPIWRSREEPYHYGNKM EQNQTSPLQLLSQCNIRTSYSP GGQGAGAPPEMWGKHFSNPK RSSSLAMTGAGSFIKECREDY YPGRLSQESYSDMSSQSFSSET RGSIQVPKYEEEEEEGGLSTQ QCRTRHPISLKYTEDMTPTTEQ TPRGSMEALSNAATENQDDCS FVNRLKGSNNRPGRQELMVT WNFIQERNGSGMDQCDDGGG KILDPVYILTVELTGFAKGWKM FSVKDQSVNVLGFAGLSADG GAKRQEHLRSFMPDLKDSG MNVSEKLSNMGTLSNMQFRS

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8400	38768	A	8457	7	302	PLPSSPEQPAGRKGTGLPCALT EIYFRVTIYFYVEIEK\LLIIVAK QEGLSGN\HKP\VERKYMTYLS AQD\HELIQVVQNGHLQMCGK SETGNEASPVS
8401	38769	A	8458	1	241	MTYLSAQDHELIQVVQNGHLQ MCGKSETGNEASP/G*GRGVNP WP/RHARSRMRALTRSSASCCR CSGASSICTGTSLSSTGG
8402	38770	A	8459	31	454	QSAWRSQIWSASRSV*SVFVR RASSRCLRNTGSGPGHPDR*DC RT/ARRCGWTRRRMASPSAAC GRSRCCSACVI/LNIVELKEVVV GNHLESIFLVMGYCEQDLASLL ENMPTPFSEAQVKCIVLQVLRG LQYLHRNFIIHR
8403	38771	A	8460	1	914	SYHHLRHHHHHLPHHCF/HHN NHYYHHYHHYYHHHHCHHHYH YHHLHHHHHHHHHDHCYYH NNNNNCHHHHHHHYHHHHH*Y HHYHPHHHHHHHHYHHHHYHH HHHHHHHRHHYYHHHHHQHH HYHHLHHHHYHHYYHNNY\HR HHRYSCNNHHYHHHHHPHY HHHHC*HHHYLYHHHHHHNH HHHYHHHHHHYHYHYH/HHH HH\HHHHYHHYCHDHNHYHY HHHHYH/AHFHHHHYHHYHYH HHHRHHHHHLHHYCHRP HHYHLSCESTHTLFPQNAISSFD CKYLDGQDDEDFVVKLCTLY
8404	38772	A	8461	102	420	DTGPGEGAAGGCGG\GVGEGV AAPAAPGHS*VG/GNQPYLSPV CSRGSPGTGRAAARGLSGCWP WWSRSGSAPSQCSSASWSAW SAGAPRFAPSAPGHPEGRRCPA
8405	38773	B	8462	121	215	

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8406	38774	A	8463	44	1584	AVLDRGPRVGSSSPSPGGMSTC LSSPLFATAAELGGGLCSAGRD GPRRKVYLSVDEKKLRCCQPKS GRSVAERAAGH\SAEGWRPVH VGPGLLGLAL*GP*AWGFQGR KGGI*KGAYTAKMMGSDKAQ ASGIATGGGHSGAEAVG/PQQ/ QGTVLSFEGGGGLSFRMPGSL \GPSVPCCKGHPGPRCPHHAV EGTDTVATVAAT/GPPLAPSHG TSWQSGSLQ*DTGPGEGAAVAA AVVGVGEGAELPAAPGHS*VG VISHICHPFVAGGSPGTGRAAA RGLSGCWPPWSPRSGSAPSQC SSASWSAWSAGAPRSAPSAPGH PEGRRCPA*GWNPPQGSKSSLKS SELWTPIPYVPYAVP*HTCGYA AGPAPVQTPCRGGWNGAQVGL DP\GGHGDGTPHGS/APRLPGRV GGAP*AAVAAISTDPPATASLG PAPGGPACCPSL*ACPASSASP APARSSWPPAPASCGSAAPWW HQTGHGSLWWPEHSCRLSHRS PSPGAPCWPFPRASPDRTA
8407	38775	A	8464	1	541	MKSLEEKIGCLLKFLGLDDQT CKEDLHILFSNHGEIKWIDFIRG AKEGILFKEKAKETLGKAKDA NNGNLQLRSKEVTWEVLEGEL EKEALKKITEDQQESLNKWS KGC RFKGKRKGSKAAQPGSGK GKVQFQDKKTKFASDDAHDEN GSTGPNKRGRETDKE*PASKQ PKTENA

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8408	38776	A	8465	1	1326	PAALGGGVVAVAVCEPVARLL WAGTLKIAVMAENGDNKMA ALEAKICHQIEYYFGDFNLPRD KFLKEQIKLDEGWVPLEIMIKF NRLNRLTTDFNVIVEALSKSKA ELMEISEDKTKIRSPSKPLPEV TDEYKNDVKNRSVYIKGFPTD ATLDDIKEWLEDKGQVLNIQM RRTLHKAFKGSIFVVFDSIESAK KFVETPGQKYKETDLLILFKDD YFAKKNEERKQNKVEAKLRAK QEQAQKLEEDAEMKSLEEKI GCLLKFSGLDDQTCREDLHIL FSNHGEIKWIDFVRGAKEGILF KEKAKEALGKAKDANNGLQ LARNKEV\TWEVLEGEVEKEAL KKIIEDQQES\LNKWKSKGRRF KGKGKGNKSCSPGSGKGKVQ FQGKKT FASDDEHDEHDENG ATGPVKRAREETDKEEPASKQ QKTENGAGDQ
8409	38777	A	8466	2	331	CSTSLMIREMQVKTTMRYHLTP ARMAIHKSRPGVCGPQFTASY CSSWNRGLSRAMAQSLTPRPLS TLQ/PLLA VDRGS/PVLGASHRL PAQC/CMTDSSSSTLGSAAAGSW QQ
8410	38778	A	8467	1	209	MNSHFLKEDIQMANKHMEKCS \PLLMIREMQIKPTVRYHLTSAR MPIIKKSK\NSRCWHGCGEHGT LLHC
8411	38779	A	8468	2	370	CSTSLIIREMQIETTMRYHLIPA RMAIHKK\SRCWQGCGEQETLL HSWKPP/LWRSSSGTARERQF LHPLLLKARIEITPPESLAVLKIP MEGTWMELEAVILSKLTQKQK TKH*MLSLTSGS
8412	38780	A	8469	2	194	CSTSLMIREMQIKTTVRYRLTS ARMAIHKSK\NSRCWHGCGEH RTLLHCCNLWKERNVSYVSA
8413	38781	A	8470	341	496	

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8414	38782	A	8471	46	711	SLIHLELIFCIGLDVRLGKDFMT NNLKGNAIKTKINFWDLIKLN FCKAKRNSQIRANR*QTEWEKT FIICTSDKGLTSRIYNKLKQISKK KTNNPIIKWAKDMNRQFSKEDI QMANKHMKKCTSLMIREMQI KTTVRYHLTSARMAIIKKSK\NS RCWHGCGEHGTLHLCWK/SKS LYEKDTCTRMFIAAQLAIKWTW NQPKGPSINAWIKDWCQSKTN HNK
8415	38783	B	8472	36	1199	
8416	38784	A	8473	3	184	FFFFFLRRSL/DSVAQAGVQWR DLSSLQAPPPGFTPFSCLSLLSS WDYRRLPPRPANFLYF**RRGF TMLARMVISIS*PRDPLASASQS AGIQKNSFFLETRVSAFVAQA GVQWCDLGSPQPPPGFK*FSC LSLLSSWDYRRLPPRPANFLYF
8417	38785	A	8474	3	295	AAAFFVFFETEFRSVAQAGVQ WRDLDSLQAPPPGFTPFSCLSLP CSWDYRRVPPCPANFCIFSRDG VSPC*PGWSRSPDLVIHPSRPPK VLGLQAMS
8418	38786	A	8475	1501	1879	IRNTHAKIHELCLLPFTTEL*CNF FFFFFLRRSL/DSVAQAGVQWRY LGSLQAPPPGFTPFSCLSLLSSW GYRRLPPCPA/NFFVFLVIERGFT VLARMVLMS*PRDPPASASQSA GITGVSHHARPTLK
8419	38787	A	8476	1550	2469	FFPFFFFLRRSSPLPRLQCSGMI LAYCNLRLLGSSNSVASASGVA GITGTCHHTQ*IFVFLVETGFHH VGQAGLEFLTSGDLPTSASQSA/ RDYRRDDHTRPEKCF/C*KTHIL WHSPSWSS/EERGSQFFSQDS*K SSRYPKLLGMWVIAINIYGTR T*K*EKFKTREYIGTHSIHRGNH GVNTYHVASEKLH/*YTYRMK KAKNFFFFFLRELASVAQAG VQWRDLG\SLQSPPPGFTPFSC\N ASLRSDYR/RVLPPCLANFFL YFFS/MRRGFTVFSR\MVISIS*PR DQ\PASASQ\SAGITGVSHRAR\L KIIFFFFFSETESRSVAQAGVQ WHDLGSRHRPPPGFTPFSCLSFP SSWDYRGPPRPANF\CVFSRD GVSPC*PGWSRSPDLVIRPASAS QKCWDYRREPPRPA
8420	38788	A	8477	1	2268	

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8421	38789	A	8478	1	2312	MAGPPSGPGRPEVCGAGRTRV AKARFRRRRASFASLGWSSGRE VVTFGDVAVHFSREEWQCLDP GQRALYREVMLENHSSVAGIG EDAPWGPFPCCIISQHPQSASIR GPCVYTVADVPVTGIAVIPPA VCFSRLKDCDTRTEDKEFLHKE DIHEDLESQAEISENYAGDVSQ VPELGDLCDDVSRDWGVPEG RRLPQSLSQEGDFTPAAMGLLR GPLGEKDLDCNGFDSRFSLSPN LMACQEIPTEERPHYPDMGGQS FQHSVDLTGHEGVPTAESPLIC NECGKTFQGNP\TLFSVKQSHT GEA\SFMCDDCGKTFSQNSVLK NRHRSHMSEKAYQCSECGKAF RGHSDFSRHQSHSSERPVMCN ECGKAFSQNSLKKHQKVHMS EKPYECNECGKAFA\SSNLIQH QRIHSGEK\PYVCSECGKAFRRS SNLIKHRTHTGKPFECG*CG KAFSQSAHLRKHQRVHTGKPY YECNDCGKPFSSVSNLIKHHRV HTGKPY* KSSACGKAFSQSSSLI QHRRIHTG\EKPHVCNVCCK\AF SY*LQCSESTRFIHTGRGRPYRC SVCGKAFSHSSALIQHQQGVHTG DKPYACHECGKTFGRSSNLILH QRVHTGKPYECTECGKTFSQS STLIQHQRINHGAEP/YKCNQC GKAFA\QSSKFSIHPQKVHIGEK\ PSPCVECCKGFSQSSHFFQH\RY
8422	38790	C	8479	194	458	
8423	38791	C	8480	214	378	
8424	38792	A	8481	107	345	GPLTCRYWEIHSQEPGPPRSLE MVLFSQSN*SPVWSKEKNL*P *RDMR*/YAKPPGRCK*K*IQQ MTQMRGRNIQEKASP

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8425	38793	A	8482	1	1454	MHEEEGESGDSRVYMSTQCTH VTLNKFLGFIVSESVSGLNIQES MKEVLRGQSLKHNPIREAGLET LQSGRQLERRGRLSGMARPLSL AAAGAPDLLFTALCSLLIEAQP LRPFDLQTTLTAAECHYTGKKF SLNEGKPVLRKNSQTNTWEPG TIITWGRGYACVSPGDQSPVWV PTERLKL RVNSDKESHREKTSK SETAFIPAQDLAYNRFYLIILLLT LSVSPVSPQTDLPAT*NYSYWA YVPFPPLIRPLTWMDAPAEIYT NDSVYMPGATDDHCPTRPREE GTAFNVTMGYKYPPLCLGHAH VDGCIHLQAQIWAAYLPERLAT REQGHLISSLSPLRQMKGGVI GDTPNFQYKPVGKPCPKNFEGP SKILIWEDCVNSHV VVKND YGLVIGWAPKGYFK\NNCSSGG RECLEATYFISHWEDKDHHPTL HRRVSSFFPL*WEDKGITPPRPH MIFPILSLEHSELWKLAIAMSGL
8426	38794	A	8483	49	1393	AEPAPTHLPPPSTAPQPERNSC CISQQSFSVP*S/SPDSDRPRGRH /SPPPP/SPCPPPCLPPPKSTTAM PTRCQCPPPPIPTVAAFPLPPSHF LRTLPAAPRPPTQPPPLSH/TTHPP EQRTLGPKFRLFSTPSPKNLEYL MNKSGRSPGCLLREATGTADL ARSIASLTAPQTDASGISGGRST LRQTRCSSGRLRTHPRLSMRAS LPLRPRRRACLPQCRDKELLITK RKYRKKKDFAGLEDVTEFQG REENPRHTFIYSLPLGLQKHQV LTVDIGFGGTAIMTGIARVPLA GAAGGPGVGRAAGRGVPAGVP IPQAPAGLAGPVRGVGGPSQQV MTPQGRGTVA AAAVAATASIM APPPGMRPPMGPPIGLPARGTP IGMPPGMRPPPGIRDCGGS LT PLGDVCLKGSLARVLCRAIVQI YSICVLLTTSEQQLSIRIHPQNA V

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8427	38795	A	8484	49	752	AEPAPTHLPPPPSTAPQPERNSC CISQQSFSVP*S/SPDSDRPRGRH /SPPPP/SPCPPPPCLPPPKSTTAM PTRCQCPPIPTVAAFLPPSHF LRTLPAAPRPPTQPPPLSH/TTHPP EQRTLGPKFRLFSTPSKNLEYL MNKSGRSPGCLLREATGTADL ARSIASLTAPQTDASGISGGRST LRQTRCSSGRLRTHPRLSMRAS LPLRPRRRACLPQCRDKELLITK RKYRKKKD
8428	38796	B	8485	511	1349	
8429	38797	A	8486	3	431	ADAVGGPGGPGMAGCDGLPG GFGSDIRPRLWLWLGPRLWSS* RGT\NIIASVPPKLLLM/DCYA LARDRTATLG\TFDAISKASN WIPDLWKETVFTKFPYQEFTDH L/VKTHTRVSKQKTQVPAVATT AARQTMEGQAPVEYI
8430	38798	A	8487	1	470	
8431	38799	A	8488	3	314	
8432	38800	A	8489	1	458	
8433	38801	A	8490	1	855	PTRPLVLRVGATARALPRPSRS CSPSAVVPSAPSSCPPQPR\RTPK PEPEPEQVIKNYTEELKVPDED CI\SMKELSTASGYSDVTDKAI GSLAVGHLLTKSHAFHLLCCLA MYCNGNKDGSLLQCPCKTIYG EKTGTQPQGMELVLRFQMSLP GHEDCGTILIVYSIPP\GIQGP\EH PNPGKAVSLPEGFPAQCYLPEQ RPGPAKSLRAP*RWAWK\RRLI FTVGHVPAPTGETDTVVWNEI\ HHKTEMDRNTGHGYDPDNYL QNVLAELAAQGVTEDCLEQQ
8434	38802	A	8491	1	3797	MEYYAAIENDEFMSFVGTWMK LEIIILSKLSQEQTCKHRMFLID FGFSNLFTPGQLLKTWCGSPPY AAPELFEGKEYDGPKVDIWSLG VVLYVLVCGALPFDGSTLQNL RARVLSGKFRIPFFMSTGLVPEL DKRLKAGCLSIAECEHLIRHML VLDPNKRLSMEQICKHKWMKL GDADPNFDRLIAECQQLKEERQ VDPLNEDVLLAMEDMGLDKEQ TLQSLRSDAYDHYSIYSLLCD RHKRHKTLRLGALP

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8435	38803	A	8492	1	2563	MGDFNTPLSTVDRSMRQKV DTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYISKIDNIIG SKALLSKCKGTEIITNSLSDHSA IKLELRIKKLTQNHSTTEKLNNL LLNDYWVHNEMKAEIKMFSET NENKDTTYQNLWDTFKAVCRG KFIALNAHKRKQERSKIDTLTS QLKELEKLNQEEVESLNRPTG AEIVAIINSLPTKKSPGPDGFTA KFYWRYKEELVPFLCLKFQSIE KEGILPNSCYEASHILPKPGRDT TKKENFRPISLMNIDAKILNKIL ANRIQQHIKKLIHHDQVGFIPG MQGWFNICKSINVQHINRTKD KNHMIISIDAEKAFDKIQPFML KTLNKL AQNLLKLISN/SQQSLR IQNQCTKITSILIHQ*QTNREPNH E*TPIHNCFKENKIPRNPTYKGC EGPLQGELQTTAQGNKRGYKQ MEEHSMLMGRKNQYLENGHT AQGNL*/I/QMPSPSSY**LSSQN WKKLL*SSYGTKKIGPHSQVNP KPKEQSWRHHTT*LQTLQGYS NQNSMVLAPKQR*RPMEQNRA LRNNAAYLQLSDL*QT*QKQA MGNGFPI**MVLGKLASHMEK AETGSLPYTLYKN*FKMD*RLT H*S*NHKNPRRKPRQYHSVHRH GQGLHV*NTKSNGNKSQN*RM GSN*TKELLHSERNYHQSEQAT HKMGENFRNLLI*QRANIQNLQ

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8436	38804	A	8493	1	1839	MPRALAFQAPVNIQAEQAGTA MNISVPQVQLINPENQIVEASSN LWELSAETTTFFAISLLPFLNISNS MPDGTNLNLSDEGEEPSPEALV RYLSMRRTVGVADPRTEVME DLQKLLPGFPGVNPQAPFLQVA PNVNFMHNLLPMQNLOPTGQL EYKMSGLPLSPRLPLISWSVLPT LFLA\EQSLLQPPTLQLLNGMGP LGRRASDGGANIQLHAQQLLK/ RPRGPSPLVTMTPAVPAVTPVD EESDGEPDQEA VQRYLANRSK RHTLAMTNPTAEIPDLQRQLG QQPFRSRVWPPHLVPDQHRSTY KDSNTLHLPTEFSPVRRFSDG AASIQAFAHLEKMGNNSSIKQ LQCECEQLQKMYGGQIDERTL EKTQQQHMLYQQEQHHQILQQ QIQQPAQSQQVTIQVQEPVDM SNMPGTAAGSSGRGISISPSAGQ MQMQHRTNLMATLSYGHRLS KQLSADSAEAHRLKWETREKG LEDDSSVSSNTGGDVTNEGKST ESADFGFSNLFTPGQLLKTWCG SPPYAAPELFEGKEYDGPVKDI WSLGVVLYVLVCGALPFDGST LQNLRARVLSGKFRIPFFMSTG YFHLLGSHCNVVLNAKDKVGF
8437	38805	B	8494	1	3879	
8438	38806	A	8495	1	4065	MGKKQSRKTGNSKKQSASPPP KKRSSSPATEQSWTENDFDEL EEGFRRSNYSELREEIQTKGKE VENYEKSLEECITRITNTENCLK ELMEPKTKARELRKECRSLRSR CYQLVERVSAMEDEVNEMKDT HRLKVKGWRKIYQGNKGQKK AGVAILVSDKTDFKPTKIKRDK EGHYMMVKGSIQQEELTILNIY APNTGAPRFKQVLSDLQRDL SHTLIMGDFNTPLSTLDRSTRQ KVNNNTQELNSALHQA
8439	38807	A	8496	1490	1813	TGNLQNGRKFLQPTHLTGK*YP ESMMNSNKFTTRKKQTTPSKSG RRT*TDTSQKKTFMQPKNT*KN AHHHWPSEKCKSKPL*DTISHQ LEWQSLKSQETT GAGEDVDK

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8440	38808	A	8497	1614	3085	AGE G N K A D K Q L Q Q S L R I Q N Q C T K I T S I L I H Q Q Q T N R E P N H E S T P I H N C F K E N K I P R N P T Y K G C E G P L Q G E L Q T T A Q G N K R G Y K Q M E E H S M L M G R K N Q Y H E N G H T A Q G N L Q I / Q M P S P S S Y Q * L S S Q N W K K L L S S S Y G T K K \ G L H H Q V N P K P K E Q S W R H H A T * L Q T I L Q G Y S N Q N S M V L V P K Q R Y R S M E Q N R A L R N N A A Y L Q L S D L * Q T * E K Q A M G K G F P I * * M V L G K L A S H M * K A E T G S L P Y T L Y K N Q F K M D * R F K R * T * N H K N P R R K P R H Y H S G H R H G Q G L / L C P K H Q K Q W / H T K A K I D K W D L I K L / I E L L H S K R N Y H Q S E Q A T Y K M G E N F R N L L I * Q R A N I Q N L Q * T Q T N L Q E K N K Q P H Q K V G E G H E Q T L L K R R H L C S Q E T H E K M L I I T G H Q R N A N Q N H N E I P S H T S * N G N / Q L K S Q E T T G A G E D V E K * E H F Y T V G G T V N * F N H C G S Q C G D S S G I * N * K Y H L T Q P S H Y W V Y T Q R T I N H A A I K T H A H V C L L R H Y S Q

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8441	38809	A	8498	2	2013	LNQEEVESLNRPI TGAEIVAIINS LPTKKSPGPDGFTAKFYWRYK EELVPFLKLFQSIEKEGILPNSC YEASIIIPKPGRDTTKKENFRPI SLMNIDAKILNKILANRIQQHIK KLIHHDQVGFIPGMQGWFNICK SINVIQHINRTKDKNHMIISIDAE KAFDKIQQPFMLKTLNKLAQN LLKLISN/SQQSLRIQNQCTKITS ILIHQ*QTNREPNHE*TPIHNCFK ENKIPRNPTYKGCEGPLQGELQ TTAQGNKRGYKQMEEHSMMLM GRKNQYLENGHTAQGNL*/I/QM PSPSSY**LSSQNWKLL*SSYG TKK\GPHSQVNPKEQSWRHH TT*LQTIQGYSNQNSMVLAPK QR*RPMEQNRALRNNAAYLQL SDL*QT*QKQAMGNGFPI**MV LGKLASHMEKAETGSLPYTLY KN*FKMD*RLTH*S*NHKNPRR KPRQYHSVHRHGQGLHV*NTK SNGNKSQN*RMGSN*TKELLHS ERNYHQSEQATHKMGENFRNL LI*QRANIQNLQ*TQTNLQEK KQPHQKMGKGHEQTLLKRRHL CSQKTHEKMLIITGHQRNANQN HNEIPSHTSQNGD/QLKSQETT AGEDVEK*EHFYTVGGTVN*FN HCGSQCGDSSGI*N*KYHLTQP SHYWVYTQRTINHAATKTHAH VCLLRHYSQ
8442	38810	B	8499	1	2860	

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8443	38811	A	8500	3	2202	EGRNKDVI*NQREQRHNIPESL GHIQSSV*REI*NTKCPQEKAGK IQN*HPNITIKRTRKARANTFKS *QKARNN*NQSRIEGNRDTKNP SKN**IQTIREYYKHLHANNLE NLEEMDKFLDTYTLPRLNQEEV ESLNRPTGSEIVAIINSLPTKKS PGPDGFTAKFYQRYKEELRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNKWKNI PCSWVGRINI VKMAILPKVIYRFNGIPIKLPIF FTELEKTTLKFIWNQKRARVAK SILSQKNKAGGIMLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEPSEIMPHIYNYLIFDKPEKN KQWGKDSL FNKWCWENWLAI CRKLKMDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGNTIQDI GMGKDFMSKTPKAMATKAKID KWDLIKLSFCTAKETTIGVNR QPTKWEKIFATYSSDKGLIFRIY NELKQIYKKKTNNPIKKWAKD MNRQFSKEDIYAAKRHMKKCS TSLAIREMQIKTTMRYHLTPVR TAIIKKS GNNRCWRGCGEIGTL LHCCWDCKLVQPLWKS V WRF LRDLELEIPDPAIPLLG IY PKDY KSCCYKDTCTRMFTAALLTI AK TWNQPKCPTMIDWIKKMWHIY TMESYAAIKNDEFMSFVGTWM KLEIIILSKLSQGQKTKQRIFSLI DGN

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8444	38812	A	8501	437	2163	KQKCNISHLWNAVVKVERIKYL GIQLTRDVKDLFKENYKPLLKE IKEDTNKWKNIPCSWVEESIP*K WPYCPR*FTDSMPSPSSYQ*LSS QNWKLL*SSYGTKKEPASPSQ S*AKRTKLEASHYLTSNYSTRL Q*PPGKRGPPVQGHNADENN HTEDRQGNRRHEHSIDQLAVT DVHSTTAEYTFSTRGGFSKID HMLGCKTNLNKYKEIEIISIFS NHNEIKQEINSRRKTRKSTNLW ELSSALLMNGSEKKTQVNLNDNI WKLMKAKMQHITLMECSERK NKIPRNPTYKGREGPLQGELQT TAQGNKRGYKQMEEHPMLMG GRINTVKMAILPKVIYRFNAIPI KLPMFTFFTELEKTTLKFIWNQK RARIKSILSQKNKAGGLTLPD FKLFYKATVTKTAWYWYQNR DIDQWNRTEPSEIMPHIYNYVIF DKPEKNKQWGKDSL FNKWCW ENWLAICRKLKLPFLTPYTKI NSRWIKDLTVRPKTIKLEENL GITIQDIGMGKDFMSKTPKAMA TKAKIDKWDLIKLSFCTGKET TIRVNRQPTKWKKIFATYSSDK GLISRIYNELKQYKKKTNNPIK KWKMDMNRHFSKEDIYAAKK HMKKCSPSLAVREMQIKTTMR YHLPVRMAIHKSGNNRCWR GCGEIGTLLHCWWDCCLKVQPL WKSVMQFLRDLELEIPFPAIPL
8445	38813	A	8502	1	2001	MPHIQVMLMQEMDSHSLGKLC PYGFAEYSPTSSCFHGFVLSVC GSSRDKATQRVDALVRQVIVN GGIVLDQFAVHDRVALADLIDL LVDLSAMMLCGVPTTGDPFVA FALGHPDDFDHLILPKHLVDRI LLEPLLGPVQLLSHSASVHLD LHQFCSDFSIGIQLTRDVKDLF KENYKPLLKEIKEDTNKWKNIP CSWVGRINIMKAMRPR*FID SMPSPSSYQ*LSSQNWKLL*SS YGTKKEPVSPSQALA
8446	38814	B	8503	152	3166	

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8447	38815	A	8504	15	2745	HPTVNIRQINETESQQGYPGIEL SSAPSGPNRHLQNSP/PPNQQNI HFFQHHTTPIPKLTT*LSLDRS TRQKVNKDTQELNSALHQADL IDIYRTLHPKSTEYTFPSAPHHT YSKIDHIVGSKALLSKCKRTEII TNYLSDHSAIKLELRINKLTQSH STTWKLNLLNDYWVHNEM KSEIKMFFETNENKDTTYQNL WDAFKA VCRGKFIALNAHKRK QERSKIDTLTSQLKELEKQEQT HSKASRRQEITK
8448	38816	A	8505	2853	3925	AVGPSVRTPRPYLCVRKD VHD VVPILRPSATSLFMPRAAGQGG QKAGGTEKSSGP*KDDV*RLQP PNGFRIH*VQ*TCRKGCPLSK RNTFQFQN*R*NLLYPALPNIPH SSVEEGVGS*ARSEDLEGAQLP *LLARLFTCRSNTYRGLKFTEA* GGE*QSICYSTRRANYPKY/HM HPIQEDPDS*SKS*VTYKET*TP TQ**WETLT/PPLSTLDRSTRQK VNKDTQELNSALHQADLID\TT ELSTPNQKNLHFFQHHTTPIPKL TTYLEVKL\PQQM*KNRNYNKL SLRPQCNQTRTQD*ETHSKLLN YMETEQPAPE*LLGT*RNESRN KDVL*NQREQRHNIPESLGHIQS SV
8449	38817	A	8506	2	376	IPYLP*STYMETGMIYVVQGIY GYHHYMQDRIDDNGWGCA YR SLQTICSWFKHQGYTERSIPTHR EIQQALVDAGDKPATFVGS RQ WIGSIEVQLVLNQLIGITSKILFV SNTRKNKKVGNIVS
8450	38818	A	8507	1	1008	
8451	38819	A	8508	218	343	
8452	38820	B	8509	306	1434	
8453	38821	A	8510	3	659	

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8454	38822	A	8511	3	1990	EPHRIASPRFRQAFDSDGTDRTL *FLSDIEEEELTRGDPEQRHVPL RRKSEWKWAADRAAIDSRWN WLQAHVSDLEYRIRQQTDIYK QIRANKGLIGLGEVPPPEHTTD LFLPLSSEVKTDHGTDKLIESVS QPLENHGAPIIGVHISESLSTKSC GALRPVNGVINLQPVLADHIPA GDCSDAEEQLHKKQRLNLVSSS SDGTCVAARTRPVLSCKKRRLV RPNSIVPLSKKVHRNSTIRPGCD VNPSCALCGSGSINTMPPEIHYE APLLERLSQLDSCVHPVLAFPD DVPTSLHFQSMKLSQWQNKPF DKIKPPKLSLKHRAPMPGSLP DSARKDRHKLVSFLTTAKLSH HQTRPDRTHRQHLDDVGAVPM VERVTAPKAERLLNPPPPVHDP NHSKMRLRDHSSERSEVLKHH TDMSSSSYLAATHPPHSPLVR QLSTSSDSPAPASSSSQVTASTS QQPVRRRRGESSFDINNIVPMS VAATTRVEKLQYKEILTPSWRE VDLQSLKGSPDEENEESPSPDV SSSHSLSEYSHGQSPRSPISPELH SAPLTPVARDTPRHLASEDTRC STPELGLDEQSVQPWERRTFPL AHSPQAECEDQLDAQERAARC TRRTSGSKTGRETEAAPTSPPIV PLKSRHLVAAAATAQRPTH
8455	38823	A	8512	119	739	ADDRDHLHIQTWCAKAPVFLQ PGSSWLSTKGKKM/PETPASDE PPLRQPAVRFEFLQHAPPSLQP LGSPGHS*GPSSDTGQPAAGR PRRQP*AAVQDLGPQTRGSASP ESQTVLPAAPSAPGSARPHGSM SASAPSPTASPQMSKPPCAAAC LRGSGAGGGTVGPCLEPGGSAP PRARLPRCAAGSARPGAAAGPP PGAGTTRAVP
8456	38824	A	8513	1	343	MRMCLRLPTLMTKCTNWHVT GHLCRPT/MREPTPEP/WTGDTT TA*METRWPAEQPALAERRLFR AAPRGAFAGIAAPSPAAPPQPG SLGILPEPTPAQAWAARNQLRG RIKERGS

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8457	38825	A	8514	3	405	KKFNPAGERVCTILVDPSIPSTAYPSYGVPHS*GPSLSLPHL/SSSSRPSSISCPLNGPWKGCS*PPCRAQCAQPQAT*ESCIHS/SSNCIPPAWEGETPSKKNKINGNPWSKIRDKTSGGEVEVWGLVAVAPVM
8458	38826	A	8515	100	1397	PPASTYLMLERLKAPWSAALQRKYFDLGIWTAPISPMALTMLNGLLIKDSSPPMLLHQVNKTAQLDTFNYQSCFMQSVFDHFPEILFIHRTYNPRGKV/CIYLPGGWTSGAAGSSCPSSLCHPC/ARRDT/CRPVPDVPSIQEV*SSMGESLYHPGGSSFPSTAYPS/SWSSPQLRSFSQPSTFVSSSRPSSISCPLNGPWKGCS*PPCRAQCAQPQAT*ESCIHS*ATASLQPCPSFTHTGCS TTASGWL TAGEAELRAATTSRASRSPPTSSASSLVPPHLRNKVWLLCSVTCSTLQTRQTSTRACVPRTIMLPQTPSPKAPNWSSW*NPTSTSPMPSAQGQQPNCASWASLLWSRNPHTSLALAQKR*TYRSWKIPIRCSPSPLPAAAATLTRPSTCPAATS*PCSVPAARCSSPTCCRLSGRQAVLPV
8459	38827	A	8516	1	326	CLTQMYFLIS/FANVDTFLLAIMALD/RLLAICSALRYCSIITPGVYS HFYCDAYLLMKIACSIHVNQHVFLGAVVFL/APCALILVSYIRIAAA/ILRIPSPTRRRKACSIC
8460	38828	A	8517	2	669	TISYPQCLTQMYFLISFANVDTFLLPIMALDHYVAICSALQ*CSIITP/ELCQGLPVLA*AGSSLISPVHTVIMSRLAFCSSAQISHFYRDAYLLMKIACSHT*NQHVFLGAVVLFLAPCALILVSYIRIAAAILRIPSPTRRRKACSICSHLSLVTLFYGTVLGICI*PPDSFSAQDAIATIMYTVVTSMNLNPFYSLMNKEVQEA VRRLFSGRSHSSWCW

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8461	38829	A	8518	1	3594	MVAAAAATEARLRRRTAATAA LAGRSGGPHCVNGGRCNPGTG QCVCPAGWVGEQCQHCGRFR LTGSSGFVTDGPGNYKYKTKC TWLIEGQPNRIMRLRFNHFATE CSWDHLYVYDGD SIYAPLVAA FSLIVPERDGNETVPEVVATS GYALLHFFSDAAYNLTGFNITY SFD MCPNNCSGRGECKISNSSD TVECESENWKGEACDIPHCTD NCGFPHRGICNSSDV RGCS CFS DWQGP GCSVPVPANQSF W
8462	38830	A	8519	1	471	ALCAPQPGKCFCTTKGSSG/DE CQLCEV/ENRYQANPLRGTCYN TLLIDYQFTFSLSQEDDRYYTAI NFVATPDEQNRDLDMFINASK NFNLNITWAASF SAGTQAGEE MPVVSKTNIKEYKDSFSNEKFD FRNHPNITFFVYVSNFTWPIKIQ VQTEQ
8463	38831	A	8520	1	4289	
8464	38832	A	8521	1	3488	MDYGVLTRLTGSSGFVTDGPG NYKYKTKCTWLIEGQPNRIMR LRFNHFATECSWDHLYVYDGD SIYAPLVAAFSLIVPERDGNET VPEVVATSGYALLHFFSDAA Y NLTGFNITYSFD MCPNNCSGRG ECKISNSSDTVECECESENWKGE ACDIPHCTDNCGFPHRGICNSSD VRGCSCFSDWQGP GCSVPVPA NQSF W\TREEYSNFKA/LPRASH KAVVNGNIMWVVG GYMFNHS DYNMVLAYDLASREWLP
8465	38833	A	8522	4794	5740	YICNWKMKDSSFPSLVQSPRS PGSCGLSGWGWGCPRVASAGS ACSCNSAVPARRTQEACRRELI GGRSTIFTDVQGWGAPGTVN EGNSACPPTLRVTVAAWLSLLF VLCRVCAASVPSLVRLRWGPQ CSGPWGA WAPPWAARVSQPG AGPGRGAE AQLLPAASI QWPC HQAPHLLLVLALVTSQG PSRCR GFCLAGPCQGGPGLLILFCHW NVPLQFSSLFFF*DGVSLLLPR LECSGSISGHCNLR L PGSSDRPA LGS*VAGDYRCLPACSANFFVF LVEKGFHHVGRAGLKL/MVIH LPRPPRVRLQA

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8466	38834	A	8523	594	2868	CWTSRNRPIPGSCHPMELPRPF RGKAKVQNHQLVHVNKALIN RGS�TFWLDDGAIQAWHCPVK TYYQYTPVSSKAMY/DAFWNG/ KFRDC/AFHSWLNEDPFVCEYQ GQSSDLQPPVNAGGGSGGGS GGGSEGGGSEGGGSEGGGSEG GGSEGGGSGGGSGSGDFDYEK MANANKGAMTENADENALQS DAKGKLDVATDYGAAIDGFIG DVSGLANGNGATGDFAGSNSQ MAQVGDDNSPLMNNFRQYLP SLPQSVECRPYVLSAGSEIGAA CASRSGYDNKGVRDIGYTDC RSEDLDPLRHQILGGKKAIFTL QGFPTLPEGAPAGNSGSLAVHK TAQSSYRHHALLILTPMSGTRF PIPGPVVNIRVFPFAPSSECRIC YSWSWVPGSPVHCQSDGSVIP SYAPLASQYSSSFLFFRNRQPYA PYDYL SVMTPSRTLREQIRIYA PSAPRLPPPEVYCSNSTIVYVRN NPSGPTPGFAGGTLLEGRSGGP FRFYAKRAKGDVLKPFSLNLPL QTLIRFMVDIACGMEYLSSRNFI HRDLAARKCMYEFWRTRGWE TAAAYYGGGTTFRKEQKLQ QSACKRDAELANGALGIELNN DYTLKKVMKPLITSNTVTDEIE RANVFKMNGKWYLF TDSRGSK MTIDGINSNDIYMLGYVNSLT GPYKPLNKTGLVLQMGLDPND
8467	38835	A	8524	302	409	
8468	38836	A	8525	199	359	ARRQQVSVKSYRWEEDQHCG ELQGSE*VSDGLFKPP*S*HGW VEEERQKEQN
8469	38837	A	8526	1853	2032	VKQSTALLPHAVAC*PKVISSG ARGLKSILVLIRIVMMVSMPLP QLALSGWGRFRVLP
8470	38838	A	8527	118	445	AAGGEPGDAPWVPGVWEPPE VCRGPPPSSTFPHVLSTFGASG PENS RD C SWLSPQH*AA*VASG NNGPQAAQGSLSGIPDAATLSG I*RASILHVS VVEIISPGFR

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8471	38839	A	8528	1	770	MRVLGIETSCDETGIAIYDDEK GLLANQLYSQVKLHADYGGVV PELASRDHVRKTVPLIQAALKE SGLTAKDIDAVAYTAGPGLVG ALLVGATVGRSLAFALGRFGDP CTPYWRASVSARCWKIPAPNFR CALLGSAAYAVNHGTGLSKKP TTLGSDHSKTPAQLAKRAGEA RRNGWQGALFPWESARSGEEE TP/VICRH*HSHRAAAKSLGA GGTSSGGRYRLGGYSILADHGG *KFHCA*RHGATSGDGKVLVD
8472	38840	A	8529	3	834	VGRVEIADQYQDLAILWNCLG SDHASSRQRRPFRGKAKVQNH QLVHLQQSSHQPWLPHFLAG* WGDSGLGGGSEGGGSEGGGSE GGGSEGGGSGGGSGSGDFDYE KMANANKGAMTENADENALQ SDAKGKLDSVATDYGAIDGFI GDVSGLANGNGATGDFAGSNS QMAQVGDDNSPLMNNFRQY LPSLPQSVECRPYVFGAVRHDV RRIRVTGVTRVTPPEEVDTSVH SRGAHRIRSGFAPKRSVRVTTD TCIKRNSTCGVKSLSLWDGGGF
8473	38841	B	8530	1	811	
8474	38842	A	8531	1	1044	
8475	38843	A	8532	3	1472	GVVGERAGMARPGRPREGGGS G/GYSRPVPPAGGPGP*RGRTRI/ SGLANGAGPVVFQFLTELTRLF QKCRITSGSVYITLKKCKQREGS RAMLPGFYTPVSSKAMYDAY WNGKFRDCAFHSGFNEDPFVC EYQGQSSDLPPVNAAGGGSG GGSCGGSEGGGSEGGGSEGGG SEGDDGSEGDGSGGGSGSGDFD YEKMANANKGAMTENADENA LQSDAKGKLDSVATDYGAID GFIGDVSGLANGNGATGDFAG SNSQMAQVGDDNSPLMNNFR QYLPSPQSVECRPYVFGAGKP YEFSIDCDKIKILRGVFAFLLYV ATFMLPVIANIAIPQKRPFMQQT RCEVQCREDIEVQKLKSYDKLL ASINKKPGVNGWQKRRTVNA GEAHDQQALDYALYHLRIMTP AHDERSIAAKGLTGEGYKGH VFWDETEVLLPFHLFSDPTVAR SLLRYRWHNLPGRARRKRDN GWAGGAPISVGKARAAKK
8476	38844	A	8533	609	855	

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8477	38845	A	8534	369	1278	GHTACEWYSQGRHPGPELSPFL *GPG*NAGHVISMPAARPMPC LGTGGLDVLLHHLRPDLPPAAL PGSAWPGEALPLPGQVSGRG RSAACLPQGAWPGRGAAPVRR RPRPAAAGSVREAELLESPLA AHRDC*LARKLNSGGYIPQAEY GKHAGLPLPGARALSCGCRAR APVPAALPHLLDHQDPGPAGR IYGTGAGTQTLDGSAPTSRL GSTQMPEARPLAGWGVAGV WSRG*SR*TRGSAS/SPRPRRCA LLALPGAAVSGDLRARNPRGSR PPKAPSGRGGPLLPPHRSTPRR
8478	38846	A	8535	3	2494	YQRQSSPEDPAETASPTYALIA ACQSEIQLQTRQQPCDMAPGPL DCDPVKGSSRKMFLMNAPPV VALQPKWEASVPPGSFRFPECF SEADKGVESMSPTMHKELPAL AACGLVADFDPVGEETADFG PLVLDSDDSVDRDIEEAIQEY L/KGGGSRCKRELAHSS/APTAL CSPKLVPGSGG/GPGSQVGSS KDQGSASPVSMSRADSFEQSIR AEIEQFLNEKRQHETQKCDGSV EKKPDTHENSAKSLSKSHQEP TKVVHRQGLMGVQKEFAFCRP PRLAKTNVQPRSLRSKVTTTTT QEKEGSTKPATP/TRPSEAVQN KSGIKRSASTARRGKRVTSAVQ APEASDSSDDGIEEAIQLYQVQ KTRKEADGDPQQRVQLQEERA PAPPAHSTSSATKSALPETHRKT PSKKKPVPTKTTDPGPGDLAD HSPKIPKETKAPPPTSPASRSKF VEWSSCQADTSAELIAVLDFK TILP/APMEGSDGSLASPLFYSP NVPSRSDGSSSVSDSDSIEQEI WTFLALKVQSRLLARGAAGQ APERVEKQAPAGAEELPKSKRD SCEGSRKKPPSVFGSRAERTKP RPSCSSVSDSDSIELEIRKFLVE KAKESGVPGQAQPCWLKPTLA GEEGLRSPAKQEGLTSAIVAGIS AALGPEHTWVPGATTPTPSVA PVLVPAVPTHWKKLAPACGGP

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8479	38847	A	8536	1	2463	MHKELPALAACGLVADFPVG EEETADFGPLVLDSDDSVDR DIEEAIQEYL/KGGGSRCRELA HSS/APTALCSPKLVPGSGG/GG PGSQVGSSKDQGSASPVMSRA DSFEQSIRAEIEQFLNEKRQHET QKCDGSVEKKPDTHENSAKSLS KSHQEPATKVVHRQGLMDVQ KEFAFCRPPRLAKTNVQPRSLR SKVTTTTTQEKEGSTKPATP/TR PSEAVQNKSGIKRNASTARRGK RVTSIAIQAPEASDSSSDGIEEA IQLYQVQKTHKEADGDPQQRV QLQEERAPAPPAHSTSSATKSA LPETHRKTPSKKKPVPTKTTDP GPGDLADHSPKIPKETKAPPP TSPASRSKFVEWSSCQADTSAE LIAVLDIFKTILP/APMEGSDGS LSASPLFYSPNVPSRSDGSSSV DSDDSIEQEIWTFLLKLVQSRSL LARGESCPQAAQGPLSPPGLSS QTGSPKAPLSKTLDP/LGCKRK HRGG\SKAQPARPRDGRAPLG WDL SIQGTASEAPGGEGAARVP GDTRTSQGQGTDEARHLDDK KSSDKSSSLDSKDLDTAID LLRESQGPAPSPGSLSDNSSVD SDDSIELEIRKFLVEKAKESGVP GQAQPC LWKPTLAGEEGLRSP AKQEGLTSAIVAGISAALGPEH TWVPGATTPTPSVAPVLVPAV PTHWKKLAPACGGPGQSLIDID
8480	38848	B	8537	1	3345	

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8481	38849	A	8538	1	1339	MTKKSPGPDSFTGHWCVISIPS GYERSRLKVTLP EEGRGALPFL VSVAISSGSCSDNNAAVPTVLE GATTVISAAVLRDPHDGAREII LEAMTISAVAIAAEISWTSQCG LCLHPGMFMPYRHGDGIRDLLP LVLSATICA EFFKGDSKKPSKK RVKRKPYSTTKVTS GSTFNENI RRYAVHTNQCRPHGSRVKKK RYPQEDDFHHTVFSNLERLDKL QPTLEASEESLVHKDRGDGERP VNARVVQVAPLRLESSKYSGIT CQENNLDAKKA/TP/CRTPYMT SLTRTPHTTSLTRILSTA/SANEA ADKGIANEDAAQGIANEDAAH G\MPARMPPRASPTRSPRASPT RTPPRASPTRTPPRASPRRTPTT GSPRRTPPRASPTRTPSTASPTR TPPMASPTRTLPTALLTRMPCT ASLMRTPYTTSLMRVPYMTSL MTPYKAR
8482	38850	A	8539	1	3090	MHKELPALAACGLVADFPVG EEETADFGPLVLDSDDSDSVDR DIEEAIQEYLVKGSSKDQGSASP VSMSRADSFEQSIRAEIEQFLNE KRQHETQKCDGSVEKKPDTHE NSAKSLSKSHQEPATKVVHRQ GLMGVQKEFAFCRPPRLAKTN VQPRSLRSKVTTTTTQEKEGST KPATP/TRPSEAVQNKSGIKRSA STARRGKRVTSAVQAPEASDSS SDDGIEEAIQLYQVQKTHKEAD GDPPQRVQLQEER
8483	38851	A	8540	1	2919	MHKELPALAACGLVADFPVG EEETADFGPLVLDSDDSDSVDR DIEEAIQEYLVKGSSKDQGSASP VSMSRADSFEQSIRAEIEQFLNE KRQHETQKCDGSVEKKPDTHE NSAKSLSKSHQEPATKVVHRQ GLMGVQKEFAFCRPPRLAKTN VQPRSLRSKVTTTTTQEKEGST KPATP/TRPSEAVQNKSGIKRSA STARRGKRVTSAVQAPEASDSS SDDGIEEAIQLYQVQKTHKEAD GDPPQRVQLQEER
8484	38852	B	8541	1	1122	
8485	38853	A	8542	1	1074	
8486	38854	B	8543	1	1017	

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8487	38855	A	8544	1	1436	MNLPRERLRSTPQRSLRDSGD EDGKIDVLGEEDEDEVEDEEE EASQQFLEQSLQPGLQVARWG GVALPREHIEGGGGPSDPSEFG TEFRAPPRSAASEDARQPAKP PYSYIALITMAILQSPHKRLTSL GICAFISGRFPYYRRKFPAWQN SIRHNLSLND CFVKIPREPGRPG KGNYSWLD PASQDMFDNGSFL RRRKRFRHQLTPGAHLPHFPF LPAHAALHNPRPGPLL GAPAP PQPVP GAYPNTAPGRRPYALLH PHPPRYLLLSAPAYAGAPKKAE GADLATPA/ALPVLQPSLATVK PVGQFCSSSGIRRRTGNGCAP TKGAVLGGHLSAASAAA AVSG GGRGLWADIARALWAERDLTS FFSIAHAQFPGRVRRALLEPGSR QPHSPTGVQKRPLL ANPAGLGQ SKSSETTENRG/CPMSCQLLAGL RSNSPLSVVRKRLRADLP SFIAN KRPGRATAAEPRRDFL
8488	38856	A	8545	1	1287	MNLPRERPRSTPQRSLRDSGD EDGKIDVLGEEDEDEVEDEEE EASQKFLEQSLQPGLQVARWG GVALPREHIEGGGGPSDPSEFG TKFRAPPRSAASEDARQPAKP PYSYIALITMAILQNPHKRLTSL GICAFISGRFPYYRRKFPAWQN SIRHNLSLNE*FVKIPREP GHPG KGNYSWLD PASQDMFDNGSFL RRRKRFRHQLTPGAHLPHFPF LPAHAALHNPRPGPLL GAPAL PQPVP GAYPNTAPGRRPYALLH PHPPRYLLLSAPAYAGAPKKAE GADLATPGTLPVLQPSLGPQPW E/RGQGS G VATGR\GCISFSIESI MQGVRGAGTGAAQSLSPTAW SYCPLLQRPSSLRTILQQQQQH QEEDCANGCAPTKGAVLG GHL SAASALLRYQPVA KGLWADIA AAPLG GEGTSPVFL

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8489	38857	A	8546	202	823	AQNPTAFGVKHTSSGGEETFPN IRGIKKSPPQLSSSSIRLSKNILST TGKTVHQTRDDDQPRDFFKKR NRVNESHQKSSNMNAGPSWKN VQHSKNSSGKRQSKSQVPHASS QPRSSLTAVTQPTEEKLIESISPE ARRKRNPLGFRQCQASRNKLFL DFQSMKIIKENADEDSASDLSL/ SGKNSHSSFSPTSRSSQSS*RN RVNESHQKSSNMNAGPSWKNV QHSKNSSGKRQSKSQVPHASSQ PRSSLTAVTQPTEEKLIESISPEA RRKRNPLGFRQCQASRNKLFLD FQSMKIIKENADEDSASDLSLSE RIPIPPSPLTPPDLNLRAEEIGSSL L
8490	38858	C	8547	219	1013	
8491	38859	C	8548	252	452	
8492	38860	A	8549	25	443	
8493	38861	A	8550	20	1371	RLRGPALGAGGGSVTLRL/PRS EQAARKEAGLNTMIPLEKPGSG GSVPRRHLRLGPGSSGS*AGRA RTPPPPQARGLLTEIRAVVRTEP FQERLQPVPRAGSWAGGKFSSG EKMYKEKILGKNLLQSS*EKRR K\SQDCRMEIHEIAVLELAQDN PWVINLHEVYETASEMILVLEY AAGGEIFDQCVADREEAFKEK DVQRLMRQILEGVHFLHTRDV VHLDLKPQNILLTSESPDGDIKI VDFGLSRILKNSEELREIMGTPE YVAPEILSYDPISMATDMWSIG VLTYYMLTGISPFLGNDKQETF LNISQMNLSEEEFDVLSESA VDFIRTLVKKPEDRATAEECL KHPWLTQSSIQEPSFRMEKALE EANALQEGHSVPEINSDTDKSE TEESIVTEELIVVTSYTLGQCRQ SEKEKMEQKAISKRFKFEPL
8494	38862	A	8551	1	1275	
8495	38863	A	8552	1	4173	

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8496	38864	A	8553	2	5115	PDQFHNMDLRGGPHDGV TIPRS TSDTDLVTSDSRSTLMVSSYY SIGH SQDLVIHWDIKEEVDAGD WIGMYLIDEVLSENFLDYKNRG VNGSHRGQIIWKIDASSYFVEPE TKICFKYYHGVSGALRATTPSV TVKNSAAPFKSIGADETVQGG GSRR LISFSLSD FQAMGLKKGM FFNPDPY LKISIQPGKHSIFPALP HHGQERRSKIIGNTVNPIWQAE QFSFVSLPTDVL EIEVKDKFAKS RPIIKRFLG
8497	38865	A	8554	202	260	ARVHQPVSLKQRFPLELGRHH QDSEAHAPPPGPA AASRGGI*V AWPAPRAGVVSLLGCRSSWTA AMELSAEYLREKLQRDLEAEH VLPSPGGVGQVRGETAASETQ AGERVPSRRAPAH PCL
8498	38866	A	8555	72	578	GSKGSVAGARA WVVSLGCRS RWTAA MELQRRIPPREAAAGP WRRSMWRWRTRPSTVAPVASE SWWCRPSSRGNR CFQRHSLDPS MTIHCDMVITYGLDQLENCQT CGTNYIISVLNLLTLIVEQINTKL PSSFVEKLFIPSSKLLFLRYHKE KEVVAVAHAVYQAML
8499	38867	A	8556	299	939	LPSPGGVGQVRGETAASETQVL YRAMRRVTAANQAFFSEAEVT AAKERGIVLPLRC\DP S\QTIHCD MG\ITYGLDQLENCQTCGTNYII SVL\NLLTLIVEQINTKL PSSFVE KLVIPSSKLLFWRYHKEKEVVA VA\HAVLSRPMLQLGRNIPCFG RTAY*V*YWGRK WTCGPLNNL PGTVCNFPEACSEIKHEAFKNH VFNVDNAKFVVKFDLN

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8500	38868	A	8557	1407	2783	SSAASHSSSPGAASRARATAGS RRRSSPIQSCHPPASACGQSGQS ETHRLAMRNRTPPS*GFSSK/H MRRSSSLASS*RG*KSVAVIL*IS ASGILPTDVHLSPTPGSSETCHR PHPGH*EPSDCLQKLPASALG*S *QEQLSHNSPRSA*AQYA/ESSG NSFFSSKVG*D*RFITTTVA\PGGP GRRTLPGKPSPEHPHRLPELPPP RSPAQVCDQTLVAPHDHNTAG/ TPGDQVCLTLVSTSRSLSVLSK GCFLLHHSTLSVQAGVRHLSLV S*AAEPTSYL*VGPKLMA*PS*K LKIRTRKPRADDSPGTSRYSSA HTRTRKPRADDSPGTSRYSHAH TRMWKPRADDSRH\SRYSTGCR SPGQMTLHAPADTALHTPG/PR KPRADDSPGTSRYSTAHTRTRK PRADDSPGTSRYSTAHTRTQKP RADDSTGTSRYSTPLASRRHRI AASASWALVVLICLTL
8501	38869	A	8558	92	1817	PLRNTGLCRGKGHPGLESSGSR RRRDGRASERRQTQRERGKTL CSSHSPWWLKANASAPAVWSQ AHRTQKPRADDSPGTSRYSTAH TRTRKPRADDSPGT\PDALQTP GRRSPGQMTPGTSRYSTGRGSP GQMTPGTSRYSTERRSPGQMTL QTPADTAQDAEAQGR*LQAPA DTALHTPGRRSPGQMTLQAPA DTALHTPGHRSRGKMTLQAPA DTALHTPGRGSPGQMTLQAPA DTALHTPERSEPGQMT\PRRPA DTALHTPGRGSPAQMTLQAPA DTALHTPGRRSPGKMTPGTSRY SHAHTRTRKPRADDSPGTSRYST AHTRTQKPRADDSPGTSRYSTA HTRMRKPRADDSRH\SRYSTGC RSPGQMTLQAPADTALHTPG/P RKPRADDSPGTSRYSTAHTRTR KPRADDSPGTSRYSTAHTRIRK PRADDSPGTSRYSTAHTRTQKP RADDSTRHQIQHRMQKPRADD SPGTRRYSHAHTRTRKPRADDS PGTSRYSTAHTRTRKPRADDS PGTSRYSTAHTRTQKPRADDS PGTSRYSTRAGCCPPGLASSAWAGL RLKTRKGWTW

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8502	38870	A	8559	13	299	EKGQDILQNLFWQLRHGPIMSS \PSASNTGWGSSS*SIVPSSTVSS WSTAMKLSSSLSEELAMTFHST ENIVVLGWVQWLTPVVPALWD SEAGRSP
8503	38871	A	8560	337	1879	VHVGAARRGFGVYPVLSLTVS GTQNCGPCLQTVVSTYQRV*PI SVIMVS*RLSRKETFSGRAVPILI LEPQSLASRTVHAIMM/HNQS MYVFGGCTQSSCNAAFNDLWR LDLNSKEWIRPLASGSYPSPKA GATLVVYKDLLVLFGGWTRPS PYPLHQPERFFDEIHTYSPSKN WWNCIVTTHGPPPMAGHSSCVI DDKMIVFGGSLGSRQMSNDVW VLDLEQWAWSKPNISGPSHPHR GGQSQLFKDAWLLHMHSGPW AWQPLKVENEEHGAPELWCHP ACRVGQC VVVFSQAPSGRAPLS PSLNSRSPISATPPALVPETREY RSQSPVRSMDEAPCVNGRWGT LRPRAQRQTPSGSREGSLSPAR GDGSPILNGGSLSPGTAAVGGG SLDSPVQAISPSTPSAPEGYDLK IGLSLAPRRGSLPDQKDLRLGSI DLNWDLKPASSSNPMDGMDN RTVGGSMRHPPEQTNGVHTPP HVASALAGAVSPGALRRSLEAI KAMSSKGPSASGRH
8504	38872	A	8561	25	313	

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8505	38873	A	8562	1	1409	MIERVLEGKWALSRAEGLHRH QCLEFLIHLVFQLMKVVNEMCP NITRIYNIGKSHQGLKLYAVEIS DHPGEHEVGEPEFH YIAGAHGN EVLGRELLLLLVQFVCQEYLAR NARIVHLVEETRIHVLPSLNPDG YEKAYEGGSELGGWSLGRWTH DGDINNFPDLNTLLWEAEDR QNVPRKVPNH YIAIPEWFLSEN ATVAAETRAVIAWMEKIPFVLG GNLQGGELVVAYPYDLVRSPW KTQEHTPTPDDH VFRWLAYS ASTHRLMTDARRRVCHTEDFQ KEEGTVNGASWHTVAGSLNDF SYLHTNCFELSIYVGCDKYPHE SQLPEEWENNRESLIVFMEQVH RGIKGLVRDSHGKGIPNAISVE GINHDIRTA\TDGDYWRLLNP\G EYVVTAKAGRFHCIHPRTCMV GYDMGAHK/CLNFTLSKTNLA RIRRDHWRSFGKAAPSALPSPG G*KLRG\RKRRQRG
8506	38874	A	8563	3	749	KTDHILGHKTCLKTFRKIEIISGI LSDHSGIKLQINNKG NFGNHTS TWKLNNMLLNDQ*VNEEIKKEI *NHPETNDNGNATYQNL*DTG KEVLRGKL/IPISTYIK*VEKLQI NNLTMHLKELEKPEQTKRKITR RKEIKIRAEINEIEAKKTIPKFN ETNSWFLENIHKTNEHLARLRK KDPNKIREEKEDIITDTVEIQRII RSYYAKK WENLEETDKFLDTY NLPRLNNEEVQNL SRPITTTVPI
8507	38875	A	8564	1	842	

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8508	38876	A	8565	1	1203	VPFLFGNCRQLLEEEVAT*PR RFRDSPGGSVQGLWTSRRAAE MLFPVHLVRPRM*ILERFVPHA LDYLLGSRLFKEPLPLKQVNPS RSLDHLQR\AREHFINYLTQCH CYHVAEFELPKTMNNSAENHT ANSSMAYPSLVAMASQRQAKI QRYKQKKELEHRLSAMKSAVE SGQADDERVRGYLLHLQRW\ VDISLEEIESIDQEIKILRERDSSR EASTSN\SSRQERPPVKPFHSHF GTWLHSQSTFGAGYSKGWPTY RTVS\DWYE\QHRKLWSTYPDQ G\AKAAPEEFRKAAQQQEDQ\ KKRRKRM\RTKQLPQSPGVM TGSDTHP*GPMGTDRTWADLP TTPQD\SGVHTPLPRKTMQSSP PPVSWLQLCTTEGKDAKSCFAF SKVSSDLSVYLYP
8509	38877	A	8566	1	995	GTKELLLT*LGGSPLLLT*TKPL GVDPL\LKGGVTQGFNEKAVFA ALRPSYGGPAGKPAFAGAMSL AGAQGSLWSVEGGNKLVCSSL LKLTKANVIHATVTSVTLHSTE GKALYQVAYENEVGNSSDFYD IVVIATPLHLDNSSSNLTFAGFH PPIDDVQGSFQPTVVS LVHGYL NSSYFRFPRP*AFPL\SNILTTDF PSFFCTLDNICPVNISASFRRKQP QDAAVWRVQSTKPLFRTQLKT LFRSYYSVQTAGVGRANPLYG FRPHGFPRFALHDQLFYLNALE WAASSVEVMAVAACKNVAFAW LYNRWYQDLKDIDQKDLMHK
8510	38878	A	8567	1	372	

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8511	38879	A	8568	1	1699	MHAKSIKTQALADMEKLVVV RDKNWVARIIPQMTSKGHVGV TTTSSAKLKSQ GKDSVAVKRV RSGLMIGFRFMVIPYSGPQVL MEIPKDADKLLCPSCAAVVLG QKKHETQTLSELKLPVQDNVV PKEDPGTWEWRTVKEGILEEV MCWLQSRVEGDWAKEERKIFH EGELAEAKAGRGGLASCTCCPL TPGKMAGPWTFTLLCGLLAAT LIQATLSPTAVLILGPK\VIKEKL TQELKDHNATSILQQLPLLIAM REKPAAGGIPVLGSLVNTVLKHII WLKVITANILQLQVKPSANDQE LLVKIPLDMVAGFNTPLVKTIV EFHMTTEAQATIRMDTSASGPT RLVLSDCATSHGSLRIQLLHKL SFLVNALAKQVMNLLVPSLPNL VKNQLCPVIEASFNGMYADLL QLVKVPISLSIDRLE/F*PSVSCH QG*HHSALPGGQVVGLTGKGD QVV\HNSAASLTMPITLDNIPFSL IVSQDVVKA AVAVLSPEEFM VLLDSVLPESAHLKSSIGLINE KAADKLGSTQIVKILTQDTPEFF YRPRPCQGGPTDRAGSVSLQ
8512	38880	A	8569	1	1060	MGLPAQGVGGNTLAKLLASDD IAKGGKRNKSEASVVRNAADA PKVLQDLSARLMGDFELRNCN SPCTLLIGIVVLINAAETLVFLS DHMEDQGSSQLNVAVLSYFQQ QDPEGQKEETAGIDLMDMASDI LQPKGDDVARISWYLRIITRY QETFNVIERCPKPVIAAVHGGCI GGGGAAAPMPRPLASSLSVM GQTVSQEAAPPGSQGWFWWS FSIPGLYLLGVDLV TACDIRYC AQDAFFQVKEVDVGLAADVGT LQRLPKVIGNQSLVNELAFTAR KMMADEISSKSPVALQ/S/TKVN LLYSRDHSVAESLNYVASWNM SMLQTQDLVKS VQATTENKEL KTVTF SKL
8513	38881	B	8570	331	1200	
8514	38882	A	8571	3	379	TSLTFHSPEVPSS*PPSCTR*AGA ARGPRPPGAAGRPR*SC*GPPGT RRWQS*GGTSP LGPVP GGRSGA ASCGLPDCEL*PLKRSAQGRNQ CPV*SSPRSWRSRSEPCAARG WPPSACRHGNRR

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8515	38883	A	8572	384	1718	SLQLPRGLLPESCAADPGA*PPS CTR*AGAARGPRPPGAAGRPR* SC*GPPGT/PALAKPPSPPVVT AAPTQARPMIKPQGAAWSTQK LPIPTSASPTQKSPIPTSASSTQK LPIPTAAWSTQKLPIPTAAWST QKLPIPTAAWSTQKLPIPTAAW STQKLPIPTAASSTQKLPMPTAA SSTQKSPIPTAASSTQKLPIPTAA WST*KLPITRAAWSTQKLPIPTA ASSTQKYTIATAASYHAKATDA WST*KLPIPRAAWST*KLPIPTA AWSTQKLPIPTAASSTQKSPIPT AASSTQKLPMPTAAWSTQKLPI PTAAWSTQKLPIPTAASSTQKL PMPTAASSTQKLPMPTAAWSTI TTMGATTHGPSTDTQNVVFLH PRCPEQASSQRSGAGAD*GLSN PKVSSAEAPSCAKDEPEVEKGR GPAPWTSQRWRAVGRPRG
8516	38884	A	8573	302	543	KLHLGWGKTPG*HWGLY*NLP RLNGPNSLMPSLRRVRRNKAR QVTSIAGCALQMEQWMHGMT RHPTRISTPITAAREVRI
8517	38885	C	8574	253	396	
8518	38886	A	8575	1107	1751	LQDLSQYFGGSQLIKT*IG*TTSI ITNSNL*TTLEM/SVKGIAEQLG TNCQMAWENRIALDMILAERG GVCIMIKTECCAFIPNNTAPNGS ITKALQGLTALSNELASSSGVN DPFTGWLEKWFGKWKGITASIL TSLTAVMGVLILVGCCVIPCIG LVQRHRGPPLVVIETKPLGLER LAGLPVGHALKLGSGIQATPQN GENADRREAFPAAS
8519	38887	A	8576	1	1365	
8520	38888	A	8577	3	263	QLILKDKFITQSAADIKEKLQKS TLGPERNLKTLLNLAT/CCFL** RSGGAGGTGQTR*EKGHHFSH GPRASGLWRLWNAESLGKSNA
8521	38889	A	8578	365	470	
8522	38890	A	8579	1	1278	
8523	38891	A	8580	23	257	
8524	38892	A	8581	1	1812	

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8525	38893	A	8582	265	699	LLGSTVLFHDPQLLIELYHSSHG PKVPFLGIREAKNSRSENTRLAT ILGAGLLPSWKWFTTILGAL*A RTPR*HFGNH/VTDIQS/RIEAVK LQMEPKMQSKTKIYRRPLDRPA SPRSDVNDIKGTPREEISAAK\PL LRPNSAGSS
8526	38894	A	8583	2	181	
8527	38895	A	8584	1	69	
8528	38896	A	8585	1	674	MDLNYTLEQMDLTDIYRTFHPT TTEYTFYSTGHGTFSTDDVIG HKMSLDKFKKIEMISNTVSDHS GIKLEINSERNLENHANTWKLN NLLLNECWVKNKMKMEIKKLF ELNDNNDTTYHNLWDRAKVVI RGKCIALNTYIKKSERAQTDNL RIKNKNHMIISIDAEKAFDKIQH PFMIKTLISKISIRGTYLNLIKDI/S *QTHSQHNAEWGKIESIHSENW NRG
8529	38897	B	8586	1	415	
8530	38898	A	8587	1	516	
8531	38899	B	8588	110	382	
8532	38900	A	8589	140	253	QNKACQHPPKITRVHQQWIQT KKKSSIYLLKKEFRRLVIKLIREA PEEGKAQCKEVQKLIQKVQGEI IDEIDTINKKQPKLQETMDTLTK MQNAQESLSNRIEQEEHSSKSL ENIFGSIMEENFPSLARDLDSQI QEAQRTPGKFITKRSSPRHIVIR LSKVTKERILRVVRQKRKIVL KS*PGNMTKQGLSTSPKNHTSS PTMDPNQEEILDLPKRIQEVSY
8533	38901	A	8590	89	194	
8534	38902	A	8591	2	633	

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8535	38903	A	8592	298	2648	GSSKILLFNQNEDDKINFELFFF FVASALVLVQKAFSRSWSSMA LADKRLNLQIYKVLQCVRNK DKKQIEKLTKLGYPELINYTEPI NGLSALHLASVSNIDMVSFLL DLGAHPDVQDRMGCTPTMRA AELGHELSMEILAKAKADMTIV DNEGKVLEGTGGLTSSPLAHIA VALHIPRRDTQGVLFYCILPTKR HYRCALIALEHGADVNNSTYE GKPIFLRACEDAHVDKDVCLTF LEKGANPNAINSILKLLFAYNG DVGLISINGNTPLHYAAMGGFA DCKKYIAQRGCDLKWKNLDHK TPRAVAKEGGFKAASKEIRR/C REN**TSQARSQKSQIPLWAL RLHDWSVEREAFLEAFVLD RGDGSISKNDFVMVLEESRIM QAQNSWLPFAHLHEKTRGGGV NIN*ILLKEPDILNKSFVLGSYGP KKKEKGMGKKGKKGKFVLP ICVIPEYAFPRRQDGGPPYIMIE TYKNVTDSSRFNRDHPPEHPIQ DDSVWYIDDSEKVFSNINIITKA GDLASLKKAFESGIPVDMKDN YYKTPLMTACASGNIDVVKFLL EKGYASPSGQQDIVELLVESGA LIDAASINNSTPLNRAIESCRLD TVKYLLDIGAKFQLENRKGHSA MDVAKAYADYRIIDLIKEKLDN LPKPAENQKLKGKTPPILKTEG PEIKKEEELLSSYGVPTTSEGK
8536	38904	A	8593	3	838	MGRGWTQAVGPRWSGGSSCTL YSVGADGRGQGHQSRGCRPPG PPSASSAPCLAWGAAGRARE GLRQNAERSSPLTAPAGRP*PC GAGPCRR*SR*\P\LVGCLRPW ASPGTGAAACGRCCCPPP*P/P*P NPWHFTVSKAFSYMPSTTA/RL VRGPRLLVGPVPVAPYIPP/PGS PASRRGSRGRSRSPRPRPSV LSCHGVSL*TGPSLPGWLLQIW QRSAQMS/P/PPKGPP*GSREGPP PP/GPALLPAAAPGGQGHRAPA AGSCGRRAAARRMEWVRNSPP
8537	38905	B	8594	1	2700	

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8538	38906	A	8595	1	1240	FPPYATNEIGKVTGLNRRELGH GALAEKALYPVIPRDFPFTIRVT SEVLESNGMRRIGQPPASSRPV RRVRAPLPPPLLEVRAPLPASRP SGEVLCTVTFDSLESGIKSDQVI TAINGIKDKNFMLHYEFPPYAT NEIGKVTGLNRRELGHGALAE KALYPVIPRDFPFTIRVTSEVLE SNGMRRIGQPPASSRPVRRVRA PLPPPLLEVRAPLPASRPSGEVL CTVTFDSLESGIKSDQVITAINGI KDKNFMLHYEFPPYATNEIGKV TGLNRRELGHGALAEKALYPVI PRDFPFTIRVTSEVLESNGSSSM ASAC\GGSLALMDSGVPISAV AGRTN*DWSPKPDPEKGEIRKII VC*QIFLGIEDYNGDMDFKIAG TNKGITALQADIKLPGIPIKIVM EAIQQASVAKKEILQIMNKTISK PRASRKENGPPVETVQVPLSKR AKFVGPGGYNLKKLQAETGVT ISQVDEETVFCNLHQHPVLMLE GKRLSFTEICKDDQEQAIRNLG AVILPAHNNWKSEILGVMGKII
8539	38907	A	8596	152	305	DNQNGKLIKCS*PCNFVHRAPY AVEITVLRFHCNWTVQVAQRE RTFLILIK
8540	38908	C	8597	414	611	
8541	38909	B	8598	1	403	

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8542	38910	A	8599	1	1702	MDSDEGYNYEFDDEECSEEDS GAEEEEDEDDDEPDDDTLDLG EVELVEPGLGVGGERDGLLCG ETGGGGGSALPGGGGGGGGG GGGGGPGHEQEEDYRYEVLTS EMILQHMVECIREVNEVIQNP TITRILLSHFNWDKEKLMEYF DGNLEKLFAECHVINPSKKSRT RQM\NTRSSAQDMPCQICYLNY PNSYFTGLECGHKFCMQCWSE YLTTKIMEEGMGQTISCPAHGC DILVDDNTVMRLITDSKVCLKY QHLITNSFVECNRLKWCAPD CHHVVKVQYPDAKPVRCKCGR QFCFNCGENWHPV\QCKWLK KWIKKDDDDSETSNWIAANTK ECPKCHVTIEKDGGCNHMCVR NQNCKAEFCWVCLGPWEPHG\ SAWDTVPV*NEDDAKAARDAQ ERSRAALQSYLF\YC\NRYMNH MQSLRF\EHRLYAQ\VTQTMEE MQQHNMSWIEVQFLKKAADV LCQCRA TLMYTYVFAFY\LKK NKPSFHIFENNPKARFDENATE GLSG\YLGTRKFPKDSLQDIKQ KVPRPSTRYCESRRKGFVTSMC HEGYEKDLWEYIED
8543	38911	C	8600	118	219	
8544	38912	C	8601	16	408	
8545	38913	B	8602	1	996	
8546	38914	B	8603	1	1302	

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8547	38915	A	8604	983	2127	DNWKSIRGSCWQDPRELLTFM APCIGVVVMQTTR*K*NTLAGH PSAGVCWCVTSAAC TGAWD ATSPLSSTFATAPGLPRCCSQAS PAPRAEPLHGQPGAPPHALKRP PGLPWP*PQEARQYRHNQAYA YSIQGDGAEDDDERIVRFHTRV INHKKRKNSPRIVQSNDLTEAA YSLSRDQKRMLYLFVDQIRKSD GTLQEHDGICEIHVAKYAEIFGL TSAEASKDIRQALKSFAGKEVV FYRPEEDAGDEKGYESFPWFIK RAHSPSRGLYSVHINPYLIPFFIG LQNRFTQFRLSETKEITNPYAM RLYESLCQYRKPDGSGIVSLKID WIIERYQLPQSYQRMPDFRRRF LQHIFVLRERPETVLIDLIQRTK DAVRELDNLQYRKMKLLFQE AHNGPAVEAQEEEEYGNLD RAYDYVKERRTVTKPNPSFMR QLEEYQGILLARPKRTAYIYGS VYRRCGYADHKVEIKHPGWAS ISRGVLCDECCSVHRSLSGRHIS IVKHLRHSAWPPTLLQSGFPGP SRRAAPRAARGPTPRTEAAW AAMALTFLVLTLATLCTRLH RNFRRGESIYWGPTADSQDTVA GSPDHGLLAFAYHRLVRFLW VLCPGWAFFLVNSSRGGVFNPI LHPCPRHGQARFAGVGRAEDV TFLYHPCAH PWLKLQLALLAY ACMANPSLTPDFSLTQDRVDIE
8548	38916	A	8605	1	224	RKQEWLSKQKENIQHFQAE ANLLRRQRQYLELECRRFKRR MLLGRHNLEQDLVREELNKRQ TQKDLEHAMLLRQHESMQELE FRHLNTIQKMRCELIRLQHOTE LTNQLEYNKRRERELRRKHVM EVRQQPKGLKSKELPNKKSSFQ GYLQNSQTRQYKALRNHLET TPKSEHKAVLKRLKEEQTRKLA ILAEQYDHSINEMLSQAVSLLF LGQNKFSAPFLPPP*AVSEQLCA HSLV

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8549	38917	A	8606	1051	1875	SDQLTAHLLNCVEVAELQFLHR FMLSFIPIHHLRLFTAPAQDASL VPLKGDILGVKLSGDDGRGKP AQHLFLSGLSSSQQLPVLPSQ CQSLCVHHPAVVVNLHDHGAC VSCLPDLGP*RQSCGSLAARSC GQSPGVWCLPSGSGRSSTLCRC H*GRSWTPGAPS**TPISSPRRSP GPCAASPGARGCPPAASPPAGS PGTEAPAAPAPGPGYSQPPGAL SSRCDSPCPLRRAPGAHGHTP RCPSVVARCRGVPRGSSCSMS TSLTRSCSKL
8550	38918	A	8607	714	2148	MPAVAKSKFINRSKRMCQPQV LRSASPIQEGEKISANENSLAVR STPAEDDSPGDSQVKSEVQQPV HPKPLSPDSRASSLESSPPKAM KKFQAPARETCVECQKTVYPM ERLLANQQVFHISCFRCSYCNN K\LSLGTYASLHGRIYCKPHFNQ LFKS\KG\NYDEFGHRPHKDLI GQAKMKTEEILER\QPQLANAR ETPHSPGVEDAPIAKVGVLAA MEAKASSQKEKEDKPAETKKL RIAWPPPTELGSSGSALEEGIKM SKPKWPPPEDEISKPEVPEDVDL DLKKLRRSSSLKERSRPFTVAA SFQSTSVKSPKTVSP\LRKGWS MSEQSEESVGGRVAERKQVEN AKASKKNGNVGKTTWQNKES KGETGKR/R*GKVHSLEMENEN \FV\ENGARLPIEDDNQLPPKQQ SSTKNPSLLEFGPSFVDNHLKK EFTTQNKQSQDVELWEGEVVK ELSVEEQIKRNRYYDEDEDEE
8551	38919	A	8608	1	4479	MCFSPPKKLYKHEIHKLDLTCL KPSIESPLRQNRSRSEEEQKQE ENGDSQLILEKIQLPQWSISLNM TDEHGNLVNLVCDIKKPMDEVY KIHLNQTDPPDIDINAMVALDF EYPMTQENYENLWKLIYYSE VPMKLHRELMLSKHPRVSYQY RQDADEEALYYTGVRQAIAEP EWIMQPSIDIQLNRPQSTAKKV LLSYYNQYSQTIATKDTRQARG RSWVMIEPSRAVQKDQTVLEG GRCQLSCNVKASESP

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8552	38920	A	8609	1	9009	MDEFAPGKHLATSGDLFGDHN YGRRTYHTLEVKCAEEHPAVS DPFQRQSLRALSPLSEDLPPSSG LRSGLTKELELLMIHGNEIPSIPD GALRDLSSLQVFKFSYNKLRVI TGQTLQGLSNLMRLHIDHNKIE FIHPQAFNGLTSLRLLHLEGNLL HQLHPSTFSTFTFLDYFRLSTIR HLYLAENMVRTLPASMLRNMP LLENLYLQGNPWTCDCEMRWF LEWDAKSRGHSCRGCASHLSH EIQLAKGFCEMLLL
8553	38921	A	8610	1	4971	MKASGILKCKKDKEYEGGQLC AMCFSPKKLYKHEIHKLDLTC LKPSIESPLRQNRSRSEEEQKQ EENGDSQLILEKIQLPQWSISLN MTDEHGNLVNLVCDIKKPM DV YKIHLNQTDPPDIDINAMVALD FEYPMQTQENYENLWKLIAYYS EVPMKLHRELMLSKHPRVSYQ YRQDADEEALYYTGVRAQILA EPEWIMQPSIDIQLNRPQSTAKK VLLSYYNQYSQTIATKDTRQAR GRSWVMIEPSRAVQK
8554	38922	A	8611	1	1283	LSFTTCSTFSTNYRSLGPAQAPS YG/SRPVSSVASVYAGTGNSSGS RISVSCSTSFGRSMESGGLAAG MT/GGLAGMGGIQNEETMQSL ND/*LASYPDRVRHLETKNRKL ESKIWEHLEKKGPQVRDWSHY FKTIRNQRAQSLAITVDNACIVL QINNTHLAADDFRVKYETELA MCQSVESNIHGLCKVNDDTNV TRLQLETEIKALKEELFMKKN HEEEVKGLQAQIASSGLTMEVD PKSQHLAKIMAAIRAQYDELA WKNGEELDKYLSQQIEESTTVV TTQSAKAGAAEMTLTEL RCTV QSLEINLNSMRNLKASLENSVR EVKACYTLQMEQLNGILLHLGS ELAQTQAKGQCQAQYEALLN IKVKLEAEIATYCHLLEDGKDF NLGDALDSSNSMQTIPKTTTHQ RVDGKVVSETNDTKVLRH

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8555	38923	A	8612	2	1365	RPQSLSPVLSLSPDSMSFTTRST FSTNYRSLGSGVQAPSYGARPVS SAASVYAGAGGSGSRISVSRST SFRGGMGSGGLATGIAGGLAG MGGIQNEKETMQSLNDGVASY LDRVRSLETENRRLESKIREHLE KKGPQVRDWSHYFKIIEDLRAQ IFANTVDNARIVLQIDNARLAA DDFRVKYETELAMRQS\VENDI HGLRKVIDDTNITRLQLETEIEA LKEELLFMKKNHVEEVKGLQA QIASSG\LTVEV\DAPKSQDLAK\ IMADIR\AQY*RAGLGKNREEVL DKYW\SQQIEVSTTVVTTQSAE V\GAA\ETTLTELRRTVQS\LEID LDSMRNLKASLENSLREVEA/R RTPLQMEQLQRGSLLHLESELA QT\RAEGQRQA\QEYEALLEHQ GSSLEAEI\ATYRRLLEDGEDFN L\GDALDSSNSMQTIQKTTTTRI VDGKVVSETN\DTKVLRH
8556	38924	A	8613	170	399	
8557	38925	A	8614	141	287	LPSRRAGLGTCSPCLSLPPASR APVRPEPLR*APPPAPRRPVPST TQG
8558	38926	A	8615	356	574	
8559	38927	A	8616	552	770	
8560	38928	A	8617	158	368	
8561	38929	A	8618	1136	1410	
8562	38930	B	8619	1	631	
8563	38931	B	8620	321	2234	
8564	38932	A	8621	170	444	
8565	38933	A	8622	325	722	LIELRHLVFFVLLLFRDLQHIMA CNMRDAVRFFVCFLVIFFREGL SRSSGA/DDRFLAGP*LLSRGAG LGTCSPCLSLPTPWAP/AAAP ASLT\TPPPAPRRPVPSTTQGLRS ASARHGTGRQLHLQPRCGIH
8566	38934	C	8623	1	1449	
8567	38935	A	8624	326	626	LPSHGAGLGTCSPCLSLPPPLW AP/AAAEPQRQAPPPAPWCPVPS TTQGLRNASTRRTGRQLHMI WPFASLKSSPATLPCEHCAPT LTFSCSSNMQT
8568	38936	A	8625	2009	2227	
8569	38937	B	8626	182	1513	
8570	38938	A	8627	497	761	NHTSCLPLGPGTTAEELPSLVA GFGTCSPCLSLPTPWAPVRPE PPR*APPPAPQRPVPSTTQGLRN ASTRHRTGRQLHLQPRCGIH

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8571	38939	A	8628	218	855	GAGLGTCSPPCLSLPPTQRAV RPEPPRRAPPPAPRRVPSTTQG LRSASTRHRTGRQLHLQPQCGV H*VKPAGLLSLALETRTNPAA/ DKHLWQSIISLQLKSDLLKEML GSQTGNGNVQDVLRYLVKSET QKAIVSLDCVRKRYRSSL QLKLCDCWGQALFSSALTDP KEVVVRDLEELSNYKTTLEGSG IFDSVARVREESEAEGT
8572	38940	A	8629	350	615	
8573	38941	A	8630	186	566	RLLSPAACRSGTMIFPSIHPSQC RMIGLGWKK*SSVHNATPWAP VPPEPPGRAPPPAPGRPVPLTTQ GLRSASARRRTGRQLHLQPQCG IHWVKPAGLLSHEGPRLRSSQ SDQEPTNSGHSGMCL
8574	38942	A	8631	656	874	
8575	38943	A	8632	415	634	LPSRGAGLGNCSPCLSLPPTPW APVQHKPPRRAPP\TPRHPVPS TTQGLRNASAWRRSGRHLHLQ PQCGIH
8576	38944	A	8633	2	264	NKQPIWIPSRHLKPYHEPDAKE EIPGGS*GPTSCSHVETDAEEDP NCHEQHLSNTATHLGTDAQEVI DGRRKPEESRTTSHICRCRS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8577	38945	A	8634	1	1743	MGQVWALVHSTLETFTDEEE GEYNEVTEQVCLPAKAGSAAV DLCCTKAVSLLPGESPQKVPTG AGGPLPAGMTGLLLGRSSLNIK AVQVQTGVTDSDYNGEIQIVTS TSVPWKAKPGDHIAQLLIVPKK FARFEGTASSGKTKFLPRFRISF LMAAIVKPPEPIPLKWLTDKPI WTEQWPLSKEKLEALEDLITQQ LKKGHIAPTFSPWNSPVFIKKK SAEQDCEWFVFTILAVNNLQLK PAKRFWKVLPPQGNQQPIWIP SRYLKPYHKPDAKEEIEGSQG FPVAAMSRLTLRRTPTVTSNTH RTQPPTWGQIEKLPQMAEENLR KAGQPVTISNWILPRITKFKPIE GAENVFTDGSSNGKASYSGSK GPLTEGNQMADRLVAKVISNA RHFHNLTHVNASGLKRRYSIT WKEAKAIIQRCPTCQVMLSAAE QHLQKSAKTEAEKLVWWRD PITKSREIGKIITWGRGYACVSP GPNQQPIWIPSKHLKPYHKPDA GEKIPGESR/ETPGCSHVKTDAE EDANCHEQHPSNTATHLGTDQ EAVTDGGRKPEESGTTSHNE*F NDSGDHHCLQQGL
8578	38946	A	8635	820	1344	PDGTTDAGRGDLSVSWETL RGCPAVRKDSIGWIRLSRTLKK NVHLCPLPRGQGLFVCPVTSSS PQHISSHRGFWNISKDAPMSWP GSYSCHNVVAPVGQGGQ*SRRA RMLRGLLSKAGHHSFCTDQAID LEITKFTFTWTD*VTLGQ*FMLS ES*SSCKPNSCCPVQCLVHSGG
8579	38947	A	8636	3	760	

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8580	38948	A	8637	1	1354	MGISCPGSSKMLNSRALPVLKL TQALRDCKERANYTNFNIYK AVESQGKFVCVLYNGQQSPEY VMIPCTSVSPTGQEVPEDRGMR MVMKNKPNKPSKMQSLKSSKH LTNSVIVIAVGIFFSVTLQARDP QLDDAIEQLRGVCIRAWEKITS GGEQYPSFSAIKQGPKEPYIDFI ARLQESLKKMIADSAAQDIVLQ LLAFDNANPDCQAALRPPIRGKA HLVDCIKACDDIGDGSSNGKAS YFGSKSKVFQTSYTSQAQKAEV AVIEVLTAFDMPINVISDSSYM VYSTQLIENAQLRFHTDEQLMT LFTQLQTAFRSTMHPFYITHIRA RHTPLPGPLTEGNQMADCLVA TAVSNARHFHNLTHVNASGLK CRYSNTWKAAKAIHQRRTCCQ MVHSSSFTGGVNPQGLEPNSL WQMDVTHVPSFGRLAYVHVC VDTFSHFVWATCQSGES
8581	38949	A	8638	596	1820	
8582	38950	A	8639	275	1495	RLGSSLLEYT/LPDQQGNIIATFE PFPKFGKAHSVVDYIKACDGIG GPLTEGNQMADCLVANASNA RHFHNLTHVNASGLKRRYSIT WKEAKAIHQQCPTCQMVHSSSF TGGVNPGRGLEPNSLWQMDVTH VPSFGRLAYVHVCVDTFSHFV WATYQSGESSACVS\KHPLLQC FVVVGIPAFIKTDNAPGYTSQA LATFFSVWNIKHITGIPYNSQGQ AIVERMNL\SLKQQLQKQKGGN RDYR/TTP*MLNLALLTLNFLS LPKGQMFSAEQHLQKPAAKT KTEQLIWWRDLITKSWEIGKIIT WGRGYAYISPGQNQQPIWIPSR HLKPYHEPDA\RKRLQEDPEDP PSCSHVKTDAEEDPNCHEQHPS NTAIHLRSDQEA\VDGRRKPEE WSGTRTWWRPWSCRT
8583	38951	A	8640	232	789	ERPWGPEGNSEGSFCPKGLE\PR TCLRGPAASAAAGAEGRQDPP GGPWCSAAGDLGSPGVQSPG GGSPRGAQVAMSGSRRRRAEP GVWGALQ*HRR*ARRMHSFPP SL/PLL*NG*SPLFLVSKCLTGSP LRSASPCPPAARSC*KHPDSSPG RPGARQSPALHPALPSLARRA APGRSFPLTSRK
8584	38952	A	8641	1	149	

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8585	38953	A	8642	1	2541	
8586	38954	A	8643	1	989	MQRGQQATGSSANAWGILQPK WVQTGPDNKRMARNVLYER LLAESPNHVVAEAVIQRPNIHL QTRDYEGLCQTLGSQPTLYQI PSLYCSYETNSNAYLLLQPIRKE VIHLEPYIALYHDFVSDSEAQKI RELAEPWLQRSVVASGEKQLQ VEYRISKSAWLKDTVDPKLVTL NHRIAALTGLDVRPPYAEYLQV VNYGIGGHYEPHFDHATSPSSP LYRMKSGNRVATFMIYLSSVE AGGATAFIYANLSPVVRVVQ/ WPGTS*AFDNQCQNAALFWW NLHRSGE GSDTLHAGCPVLV GDKWVANKWIHEYGQEFRRPC
8587	38955	A	8644	2	505	AWLKDTVDPKLVTLNHRIAAL TGLDVRPPYAEYLQVVNYGIG GHYEPHFDHATSPSSPLYRMKS GNRVATFMIYLSSVEAGGATAF IYANLSPVVRVVQ/WPGTS*A FDNQCQNAALFWWNLHRSGE GSDTLHAGCPVLVGDKWVA NKWIHEYGQEFRRPCSSPED
8588	38956	A	8645	298	401	KKSLLVRRSWRMKELKKKIGQ Y*RKLGRLLGKAI
8589	38957	A	8646	1	417	FRAAPESGGESVFGETHRAL QGAMEKLQR/RLWKEKVDLKE RVEKLELQFIHLSGQTDITGRK YISQGAVSETQHWKEDIVRL AQDQEEMKVNQLQLR/EQVLQ LVGDHKEGHGK/FLTIAQNPAD EPTLGAPIAQELGC
8590	38958	A	8647	2	430	AAVKPLGSAETA VPIARLGCR FSRRCRRRRGRGSLLSFSAAK VAFFNSAGANAQEEQRVCCQP LAHPVASSQKKPEVAAPAPESG GESVFGETHRALQGAMEKLQR/ RLWKEKVDLKERVEKLELQFIH LSGQTDITHNKISY
8591	38959	A	8648	1	2769	
8592	38960	A	8649	1	314	FVNLFEIPVRVVEFGATCRAVA EPEQQR*SPSARPRPPCLLASV AAALAAAAAAGGEAAYCL SPRRR*GAVSARPAGEPREPHE WDNRRSDFKRRRRGRDG
8593	38961	B	8650	46	307	
8594	38962	C	8651	1	4584	
8595	38963	B	8652	438	532	
8596	38964	B	8653	832	927	

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8597	38965	A	8654	320	1136	RIMETIANLSSQSPVSLPLRVGL AEYLEMEED/DLDSEQEAPRPM PNIPGDLESREP\QVAFFNSAGA SAQEEQRVCCQPLAHPVASSQK KPEVAAPAPESGGESVFGETHR ALQGAMEKLQVTTLWKEKVD LKERVEKLELQFIHLSGQTDITV SERLGHRWGELPGHPRGPSI*A MSSCRKVHQPGGSVRDAALGE EDIVRLAQDQEEMKVNQLER/ EQVLQLVGDHKEGHGK/FLTIA QNPADPTLGAPVAQELGCAD EQGGFYPRSPDLC
8598	38966	B	8655	97	235	
8599	38967	A	8656	1	2104	
8600	38968	A	8657	3	1107	FMTTDERKLFNHLKSPHLKYW VPFIWFGNLATKARNEGRIDS VDLQSLMTEMNRYRSWCSLLF GYDWVGIPLVYTQVVT LAVYT FFFACLIGRQFLDPTKGYAGHD LDLYIPIFTLLQFFFYAGWLKVA EQLINPFGEDDDDFETNWCIDR NLQVSL LAVDEM HMSLPKMK KDIYWDDSAARPPYTLAAADY CIPSFLGSTVQMGLSGSDFPDEE WLWDYEKHHGRHSMIRRVKRF LSAHEHPSSPRRRSYRRQTSDDS MFLPRDDL/HSQGPTGCALKK PPQGLTHLE/DNPASQKEAPRCT SAWESCPPSGRPARQALYRA*P HSPV*ELPPSKCH\GT*GIDHSSR STSAHIRGLPP*FRYLHLEL
8601	38969	A	8658	3	397	
8602	38970	A	8659	346	474	

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8603	38971	A	8660	1	1344	MHSTWLCFPARLLKELPFPQGL FPRLTIRASRTPPAALERVTRD PCAATCLDRGSLKGILGHSPFQ SPPVTSHCAENPNTLKAPPPYV GATSALVLSLGGPVPWLSVEL SIRTFASSGLIYYMAHQNQADY AVLQLHGGRLHFMFDLGKGRT KVSHPALSDGKWH TVKTDYV KRKGFITVDGRES PMVTVVGD GTMLDVEGLFYLGGLPSQYQA RKIGNITHSIPACIGDVTVNSKQ LDKDSPVSAFTVNRCYAVAQE GTYFDGSGYAALVKEGYKVQS DVNITLEVFTSSQNGVLLGIST AKVDAIGLELVDGKVL FHVNN GAGRITAAYEPKTATVLC DGK WHTLQANKSKHRITLIVDGNA GWR*KSHTPQSTPVD TN\NPIYV GG\YPAGVKQKCLRSQTSFRGC LRKLALF\RG PQVQS FDFSRAFE LHGVFLHSCPGTES
8604	38972	A	8661	3	92	
8605	38973	A	8662	2	158	HTFPTFSSSPHLVMMIQPSSSSP PPPLPPPPSS\PLPLPPSPPLLL FFL
8606	38974	A	8663	21	471	DGPQDQPPHQPS SSPPPPLPPP PFPPLPLPPSPPLLLFFCSDEA LLCCHTGVELFFVIFAYCSG/PE TEPAISPRYASSSGLNGFPLPRT PPAYA*IPSSGIHFNP SLAIKPST TTTLVRTPTTHHSRRPTITTQS STTAP SRLHP
8607	38975	A	8664	2	105	
8608	38976	A	8665	3	265	RKDLYANTALSGGTTMYPGIA DRMQKEITALAPSTMKIKIAPP ERKYSVWIGGSILASLTFQQM WISKQEY\DESGPSIVHRKCF
8609	38977	A	8666	3	757	NTP\AMYMAIQAVLSLYTSGRT TGIAMDSGDGVAHTVPIYEGYT LPHAILHLDLAGWDLTDYFMKI LMECSYRFTTMAEQEIVCDIKE KLCNIALDFEHKMATGASSSSL EKSYEVPDGGQVITIGNEWF/*VP EALFQPS/MGMESCGIQETTFNS IMKCDVDICKELYAKMVLSSGT TMYLGIADRMQKEITALGRPST LRFRFIAPP/ERRKYSV\WIGG\SI LASLSTFQQM\WISKQE\YDES GPLHPSTANCF

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8610	38978	A	8667	3	171	CPLCRGNHWKVVHCPSGR/MVP* VRSPQPDDPTTGQRVPGASASS CHHPH*APGTFNH
8611	38979	A	8668	1	325	SPSRTCYQCGLQGHF*KDC/TSE KPPPRPCLLCQGNHWKVVHCPR/ VTKVLWVRSPQPDDPATGLRV PDD*EHTIRRAYALGKSAVTSK PPPPYPARSRLNVRRLCSLATN
8612	38980	A	8669	3	377	
8613	38981	A	8670	1	423	
8614	38982	A	8671	1	1659	
8615	38983	A	8672	1	1449	MVNDTDRPKVQVEYKGETKIF YPPEVSSMVLTKMKEIAEAYLG KTVTNAVVTVPAYFNNSQHQA TKDAGTIAGLNVLRINEPSAAD IAYGLDKKVGAERNVFIFDLRG GTFDVSILIIQDGIFEVKS GDTHL GEEDFDNRIVSHFIAEFKHKYK K DITIRDVKL DKSQIH DIVSIGG YTHIPKIQKLLQDIFNRKELNKS INLDEAVAYGAAVQAAILSGD KSENVQDLLLLDVNPLSFGIEL AGGVMTV/LPVLIKHSTTIPTKQ TETF*QPIYSDNQPGVYEGECAM TKDDNLLDKFELTGIPSAPHGV PQIEVTFDIDANGILNVSAVDKS VGKENTTTTTNDKHRLSKEDM NIWSAEKYKAEDKRQRDKVSS KNSLESYAFHMKATVKDEKLQ GKINGEDKQKILDKFNEVIKWL DKNQAAKKEEFHQQTELEKV CNLIISKRYQSAGGMPGGMPGG FPGGGAPPSSGASSRPITEEVD

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8616	38984	A	8673	18	1388	TRLQLLGFLWLPSSLLEPGLHPS NHGPRGPAVGIDLGTTYSCVGV FQHGKVEIIAN\DQGNRTTPSY VAFTDT\ERLIGDAAKNQVAMN PTNTSF*LPNGLIGR\RFD\DAVV \QSDMKHW\PFMVVNDAGRPK APS*NTKGETKSL\YPEEGVFLW V*PKMK\EICRSLTLGKTVTNA\ VVTVPV\YFNDS\QRQATKDAG TIAGLNVLRI\INE\PTAAIA\YG LDKKGLEQKRNRAHLLTWGG GTF\DVSLTIED\GIFE\VKSTAG DTHLG\GEEDFDNRMVNHFAIE FKRKHKKDISENKRAVRRLRTA CERAKRTLSSSTQASIEIDSLYE GIDFYTSITRARFEELNADLFRG TLDPVEKALRDAKLDKSIHQDI VLVGGSTRIPKIQKLLQDFNG KELNKSINPDEAVAYGAAVQA AILSGDKSENVQDLLLLDVTP SLGIETAGGVMTVLIKRNTTI
8617	38985	A	8674	2	1559	RYLNWIGTPTKGMSLKAFFVQQ PHKSYWLKTLLPDNMEALQIR K*VPNILGTCAVSWLKGPCSDV AVKKFFIFSLGNYWEGN*LI*EH GYKVV*HSNSYLEPISPAQTPK KRTTSYFSTLLCLRLRSCLFLK RIECYEVNYQPLDEELDR*EPAP QSQGLDLSPSFDIL*DHIQSRTV YYLMNIHVTPRSIYLCRHGESE LNIRGRIGGDSGLSVRGKQVG WATHTQMGWLGCPWAAGFP ILPSRPYPNAGVTLAAPVPTHDS VLPALPTRAGGQDETEPGLKAG PTGLPSAPPLEMGGGAPGKALS WMATPWCLPFCYVEVALTCAA PTVYQAVVWVLPPIHYLKCSPT AGQMRQCSLDMRPERGRDVSE GTRDHVRELREFNLWLIPPCQG LLPTSHMKRTIQTAEALGVPE QWKALNEIDAVRCMG*ISCVW G*LESGIPLRDQDKYRYRYPK GEVRFAGWPNA*DYSVSSLQL NV\LLICHQASMRCLLAYFLIKS SGITTLISALGMFDGI
8618	38986	C	8675	16	206	
8619	38987	A	8676	157	413	ALVCS/SSLAIEMQIKTTMRYH LTPVRMAIIKKSGNNRCWRGC GEIGTLLHCWLDCKLVQPLWK SVW*FLRNLELEIPFDPAIPLL
8620	38988	B	8677	877	2126	

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8621	38989	A	8678	1	1731	
8622	38990	A	8679	2	1675	
8623	38991	A	8680	1	2142	MIILIDAEKAFDKIQQPFMLKTL NKLIGIDGTYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DIPKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPYT KIHSRWIKDLNVRPKTIKLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKKITNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM
8624	38992	A	8681	1	1242	

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8625	38993	A	8682	14	1785	FDQVEERVSVIEDQMNMKRE EKFREKRVIRNEQSLQEIWDYV KRLNLHLIGVPESDWENGTKLE NTLQDIIQENFPNLARQANIQIQ EIQRMPQRYSSRRTTPRHILNA HKRK*ERYKIDTLTSQLKELEK QEQTYSKASRRREITKIRAELEK IETQKTLQKINESRSCFEKINKID RLLARLIKKKREKNQTDVIKND KGDITDPTEIQTIREYYKHL TNKLENLEEMDKFLDTYTLPR NQEEVESLNRPIITGSEIEAIINSL PTKKSTGPDRFTAIFYQRYKEE LVPFLKLQFSIEKEGILLNSFY ASTILIPKAGRDTTKKENFRPISL MNIDAKILNKILANRIQQHIKKL IHYNQVSFPIGQGWFNICKSIN VIQHINRTKDKNHTIISDAEKA FDKIQQPFMLKTLNKLIGDGT LKIMTAIYDKPTASTILNGQKLE AFPLKTGTRQGCPLSPLLFNIVL EVLARAIQKEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQT LLKLISNFSKISGYKINVQKSQV FPYTNNRQTESQIMSELLFTIAS KRIKYVGIQLTRDVKDLFKEN
8626	38994	A	8683	1	5127	
8627	38995	B	8684	1	1461	
8628	38996	A	8685	2	1879	
8629	38997	A	8686	1	1299	MKLPEEGSGSIICCSAIFAVLQL PLVIHRQTGYGEDLQQTPDLDLQ LRDLTDHSSSPAMEQSWMEND FDELNRSRLQKANKLENLEETD KFLDTYTLPRLNQEETESLNRPI TGSEIEAIHNNVPTKKSPGPDGV TAKFYQRYKEELRTVNKNHMI SIDAEKAFDNIQQPFMLKTLNK LGIDATYDKIIRAIDDKPTANIIL NGQKLEAFPLKTGTRQGCPLSP LLFNIVLEVLAIRAIQKEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLINNFSGYKI NVQKSQEFYNNNRQTENQIM SELPFTIASKRIKYLGIQLTRDV KDLFKENYNPLLNEIKKDTNK WKNIPCSWIGRINIMKMAILLK VIYRFNAIPIKLLMIFFTELEKVT TLKCI*NQKRAHIAKPILSQKNK
8630	38998	B	8687	1	2187	

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8631	38999	A	8688	1	1698	MMGDFNTPLSTLDRSMRQKVN KDIQELNSALHHMDLIDIYRTL HPKSTEYTFFSAPQRTYSKIDHI VGSKALLSKCKRTEITNCLSDH SAIKLELRIKKLTQNHSTWKLN NWLLNDYWVHNEMKAEIKMF FETNEIKDTTYQNLWDTFKATL NQEEVESLNRPTGSEIQAMINS LGTKK/SPGPDGFTAKFY/PÆ*H DCISRKPHRLSPKSP*ADKQLQ QSLRIQNQCSKITSILIHQ*QTNR EPNHE*TPIHNCIKDNKIPRSPTY KGCEGPLQGELOTTAQRNKRK HKQMEEHPMLMDRKNQYHEN GHQAQGNL*IQCHPHQATNDL HRIGKKYSKVHMEPKSLHCQ VNPKEQSWRHHTT*LQTLQ GYSNQNSMVLVPKQRYRPMEH NRALRNATYLP LSDL*ET*QK QEMGKGFPI*QMVLGKLASHM *KAETGSLPYTLYKN*FKMD*R LKC*T*NHKKHPRRKPRQYHSGH RHGQGLHV*NTKSNGNKSQN* QMGSH*TKELLHSCRNYHQSE QATYRMGENFCNLLI*QRANIQ NLQRTQTNLQ/RKKQPHQQVG
8632	39000	A	8689	1	5073	
8633	39001	A	8690	128	1407	EKKASDDQTPSYRRKFKPKA KKLNTLKKI*TN/RITRITNREKC LKELMELKAKARELREECRLR SQCDQLEERVSVMEIQTIRE YYKHL YENKLQNL EMDKFLD TYTLRRLNQEEVESLNRPTGSE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELIPFLKLQFQIEKEGI LPNSFYEASIIIPKQGRDTTKK ENFRPIFLMNINAKILNKILANRI QQHIKKLIHHDQVGFIPGMQG WFNICKSRNVIHHINRTKDKNH MIISIDAEKAFDKIQPFMLKTL NKLGI DETY LKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIVLEV LARAIQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLFELISNFSKVSGY KINVQISQAFLYTNYRQSAKS
8634	39002	B	8691	1	1443	
8635	39003	A	8692	1	1878	
8636	39004	A	8693	1	1479	

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8637	39005	A	8694	1	2091	MVFLEKISVGISRLSKQHPPFIR VALPLDADPTVSRIGSFQWVLG LADFRNEAVDPRDVQMCPEFIP SGGFVVFLTSGVKPQTFTVSITA LKGEPTQMRRNQKTNSGNMTK LGYLTPQKNHTSSPAMSPNQE IPDSPEKEFRRTTEEASLTEGGTI NPIISWAVGNGSSKNLYHILGK GRKIFSSSGIKQKSIASGERQNF QRNDQTAFAVHENPLFCshr CWYPGKQEKCLKELMELKAK ARELREECRSLRSRCDQLEERV SVMEDEMNMKREGKFREKRI KRNEQSLQEIWDYVKRPTLHLI DVPETLNAHKRKQERSKTDLT SQLKELEKQEQTHSKASRRQEI TKIRAELEIETEKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDAIKNDKGDITSDPTEIQT TIREYYKHLIYANKLENLEEMD KFLDTYTLPRLNQEEVESLNRPI TGSEIVAIINSLPTKKSPGPDGST AEFYQRYKEELLISNFSKVSIGY KINVQKSQAFLYTNNRQMESQI MSELPFTITSKRIKYLGIQLTRDI KDLFKENYKPLLNEIKEDRNKC KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLRTFFTELEKTTL KFIWNQKRARITKSVLSQKNKA GGITLPDFKLYYKATVTKTAW YWYQNRDIDQWNRTEPSEITP
8638	39006	A	8695	1	3514	MELKTKARELREECRSLRSRCD QLEERVSAMEDEMNMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLARQANIQIEI QRTQPQRYSLRRATPRHIVRFTK VEMKEKMLRAAREKDRSTRQK VNKDTQELNSALHQADLIDIYR TLHPKSTEYTFFSAPHHTYSKT DHIVGSKALLSKCKRTEIITNYL SDHSAIKLELRIKNLTKSRSTTW KLNNLLLNDYW
8639	39007	A	8696	1	2091	

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8640	39008	A	8697	1	2781	MGKKQNRKTGNSKKQSASPPP KERSSSPATEQSWMENDFDEM REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERVSVMEDEMNMN DGENGTKLENTLQDIIQENFPN LARQANVQIQEIQRTPQRYSSR RATPRHIVRFTKVEMKEKMLR AAREKDFKPTKIKREKEGHYIM VKGSIQEEELTILKIYAPNTGAP RFTKQVLSDLQRDL
8641	39009	A	8698	1	1584	MSISGTVRMSAKSKGNPSSSCP AEGPPAASKTKVKEQIKIIVEDL ELVLGDLKDVAKEKELQHW HPISGDTATSICTVLESEKSKIK VTAFDVWLHLWGKGTKDKQKD SSNFCRLKCPCLTALKRAVVLP ARSWRCENGQTASSGSLTPDP RAANREAPPSRGRLTPHTASDG ENGTKLENTLQDIIQENFPNLAR QANIQIQEIQRTPQRYSSRKATP RHIVRLTKVEMKEKMLRAARE KEIQTAIREYYKHLIYANKLENL EEMDKFLDAYTLPRQNQEEVE SLNRPITGPEIVAIINSLPTKKSP GPDGFTAIFYQRYKEERHINRT KDNHMIISIDAEKAFNKIQQPF MLKTLNKLIGIDGTYFKHIRAIYD KPTANIILNGQKLEAFPLKTGTR QECPLSPLLFNIVLEVLAIRQ EKEIKGIQLGKEEVKLSLFVDY MIVHLENPIISAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMSELPFTIASKRIKYLGIQ LTRDVKD/LFEEND

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8642	39010	A	8699	1	1722	MAGYPSEMKLPEELSGSNICCS AVFTVLQPLLLIPRQTGSGVDL RQTPTDLQLRVLTVRRKNNKQ KRTSTPKPHLYVTIHKDQRSKKL TQNHSTTWKLNLLNDYWV NNEMKAEIKMFFETSENKGTIY QNLWDTFKAVCRGKFIALNAH KRKQERSKIDTLTSQLEKEKQ EQTHSKASRRQEITKIRAEQKEI ETQKTLQKINESRSCFFEKINKI DRLLARRIKKKREKNQIDAIGN DKGDITADPTEIQSTIREYYKHL YTNKLENLEEMDKFLDITYTLPR LNQEEDESLNRPITGSEIEAIIINS LPAKKSPGPDRTAEFYQRYKE ELHINRTKDKNHMTISVDAENA FDKIQQPFMLKTLNKLVLVLA RAIRQEKEIKGIQLGKQEVKLSL FADDVIVYLENPIVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYS NNRQTESQIMNELSFTIASKRIK YLGQQLTRDVKDLFKENYKPLL NEIKDDTNKWKNIPCSWVGRIN IVKMGILPKVVYRFNAIPIKLPM TFFTELEKVTTLKFIWNQKRARI AMTILS*KNKAGGITLP
8643	39011	A	8700	3	1033	
8644	39012	A	8701	1	1068	ANKLENLEETDKFLDITYTLPR LNQEETESLNRPTGSEIEAIIINNV PTKKSPGPDGVTAIFYQRYKEE LRTVNKNHMIISIDA EKAFDNIQ QPFMLKTLNKLGDATYKHIRA IDDKPTANIILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLA AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLI NNFSKVSGYKINVQKSQEFLYN NNRQTENQIMSELPFTIASKRIK YLGQQLTRDVKDLFKENYNPLL NEIKKDTNKWKNIPCSWIGRINI MKMAILLKVIYRFNAIPIKLLMI FFTELEKVTTLKCI*NQKRAHIA KPILSQKNKAGSITLR
8645	39013	B	8702	69	1055	
8646	39014	B	8703	1	2301	
8647	39015	A	8704	1	3189	

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8648	39016	A	8705	92	1139	ASAADTQANRVWSGPPANSNR PAA\RVLTVRRKTNKQKGHPH QNPICTSPSSKTKEIQTIREYYQ HLYTNKLENLEEMDKFFDTYT LPRLNQEEVESLNRPTGSEIEAI INNLT/KKSPGPDGFTAKFYQS VGSSGQGNQAGEGNKGHSIRK RGSQIVPVC R*HDCISRKPHRLS PKSP*ADSQLQQSLRIQNQCAKI TSILIHQ*QTNREPHE*TPIHNG FKQNKIPRNPAYKGCERPLQGE L*TTAQ*NKRGYKQMEEHSM MGRKNQYHENGHTAQGNL*IQ CHPHQATKNFLHRIGKNYFKV HMEPKKGPHCQVNPKEQSW RHHTT*LQTLQGYSNQNSI
8649	39017	A	8706	1	2199	
8650	39018	A	8707	1	2238	
8651	39019	A	8708	3	1889	RSMRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTFFSAPH HTYTKIDHILGSKALLRKCKRT EITNYLSDHSAIKLELRIKNTQ NRSTTWKLNLLNDYWVHN KMAEIKMFFETNENKDDTTYQ NLWDAFKA/EIQTITIKEYYKHL YANKLENLEEMDKFLDTYTL RLNQEEVESLNRPTGAEIVAIN SLPTKKSPGPDGFTAEFYQRYK EELVPFLLKLFQSIEKQGILPNSF YEASTILIPKPGRDTEKENFRPI SLMNIDAKILNKILAKRIQQHIK KLIHHDQVGFIPGMQGWFIHK SINVIQHINRAKDKNHMIISIDA EKAQFDKIQRFMLKTLNKLID GTYFKIIRAIYDKPTANIILNGQ KLEAIPKAGTRQGCPLSPLLFN IVLEVLARVIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVT AQNLLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSELP FTIASKRIKYLGIQLTRDVKDLF KENYKPLLKEIKEDTNKWKNI CSWVGRINIMKMAILPKVIYRF NAIPIKLPMFTFFTELEKTK\FIWN QKSAHITKGILSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN

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8652	39020	A	8709	1	1779	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSNIDHIV GSKALFSKCKRTEIITNCLSDHS AIKLELRIKKLTQNHSTTWQLN NLLLNDYWVNNEMKAEIKMFF ETNENKDTTDQNLWDTFKA VC RGKFMALNAHKRKQERSKMG TLTSQLKELEKQEQTHSKASRR QEITKIRAELEIET/QKTLQKIN ESR\TEIQTIREYHKHLYANKL ENLEEMDKFLDTYILPRLNQEE VESLNRPVTGSEIEAIINSLPTKK SPGPYGFTAIFYQRYKEELHIN RTKDKNHMIISIDAEKAFDKIQ QPFMLKTLNKLIGDGYLKILR AIYDKPTANIILNGQKLEAFHLK TGTRQGCPLSPLLFNIVLEVLAR AIRQEKEIKGIQLGKEEVKWSL FADDMIVYLENPIVSTQNLFKLI SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLGQLTRDVKDLFKENYKPLL NEIKEDTNKWNIPCSRAGRINI VKMAILPKVIYRFSAPIKLPMPT FFTELEKTK\FIWNQKRAHIAKS ILSQKHKAGGITLP

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8653	39021	A	8710	1	2093	MEITTNCLSEHSAITLQLRIKKL TQNCTTTWKLNYLLLNDYWV NNEMKEEIKMFFETNENKDTT YQNLWDVFKAVCRGKFIALSA HKRKQERSKTDTLTSQLKELEK QEQTHSKASRRQEITKIRAELEK IETQKTLQEINDSRSSFSEKLNKI DRPLARLIKKKREKTQIDAIGN DKGEINTNPTEIQTIREYYKYL YANKVENLEEMDTFLDTYTLP RLNQEEVESLNRPIGSEIEAII SLPTKESPGPDGFTAIFY/HEGN QERERNKGYSIRKRGSHIVPVC R*HDCLFRKPHHLSSKSHEAVK QLQQSLRIQNQWAKITSMPVH Q*QTNREPNHE*TPIHNCYKEN KIPRNPTYEGCEGPLQGELQTT AQQNKRGQKEMEKHSMLMDR KNHYHENGHTAHGNL*IQCHP HQATNDFLHRIGKNYVNFHME PKKSLHCQENPKQREQSWRHH AT*LQTLQGYSNQNSMVLVPK QIHRTMEQNRGLRNNTTHLQPS DL*QI*QKQEMGKQFPI**MVL GKLASYM*KAETGSLPYTLK N*FKMD*RLKC*T*NHKNPRRK PRQYHSGHRHGQGLHD*NTRS NGNKNQNRQMGSN*TKELLHG KRNYHQSAQTTYRMGENFCNL PI*QRANIQNLQRT*TNLQEKNK QPHQKVGKGHEQTLLKRRHLC SQQTHEKMLIITGHQRNANQN

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8654	39022	A	8711	3	1805	PLSTLDRSSRQKVNKDIQDVISA LHEAGLIDIYRTLHPKSTEYTF SAPHHTYYKIDHIVGSKALLSK CKRTEITTNCLSDRAIKLELRI KKLTQNYTTTWKLNLLLSY WVNNEMKAEIKMFFETNENKD TMYQNLWDTFKA VCRGKFIAV NAYKRKQERSKIHTLSQLKEP EKQEQTHSKASRRQEITKIRAE KEIDTQKTLQKISVSRWFSE NKIDRLIARLMKKKREKNQIDA IKNDKGDITIDPTMQTTIREYY KNLYANKLENLEEMDKFLDTY ILPRLNQEEVELPNRPITGSE AIINSLP/TKKSPGPDEFTAKFY RYKEELQGVIRQEKEREDTQLG KEEVKLLFAEDMIVYLENPIV SAQNLLKLNNFSKVSGYKINV QKSQAFLHTNNRQTESQIMSEC PLTIASKRIKYLGIQLTRDVKDL FKENYKPLLNIKEDTANKWKN IPRSWLGRNNIVKMTILPKVIYR F/NTLNFIWNQERARIAKTILSK KNKAGGITLPDFKLYYKATVT KTARYWKQNIKKGSVWPISLK SEKRGHRTPLWKLCHNDVQGE ELLKTIQFLFGSPLGHSSLDPSA
8655	39023	B	8712	1	1743	
8656	39024	B	8713	1	1260	

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8657	39025	A	8714	1	1842	VPPTTCGNYGSTIQDEIWMGTQ NQTISVSEEMMFQAEIASAQK MWNQHHITPSKVDHIVGSKAL FSKCKRTEIITNYLSDHSAIKLK LRIKKLTQNRSTTWKLNLLLN DYWVHNEMKAEIKIFFETNEN KDTTCQNLWDTFKAMCRGKFI TLNAHKRKQQRCKIDTLTSQLK ELEKQEQTHSKASRRQEITKIRA ELKEIEAQKTLQKINESRSWIFE KINKTDRLRLARIKKKREMNI DAIKNDKGDITTNPTIEIQTIRE YCKHLYANKLENLEEMDKFLN TYTLPRLNQEEIESLNRPIITGSEI EAINSLPTKKSPGPDGFTAIFY QRYKEEMIEKKAFDKSQPPFM LKTLNKLIGDGTFLKIRRAIYDK PTANIILNGQKLEAFPLKTGTRQ GCPLSPLLFNIVLEVLAREIRQG KEIKHIQLGKEEVKFSLFADDVI AYLENPIVSAQNLLKLISNFSKV SGYKINVQKLQAFLYTNNRQTE SQIMSEFPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLNIKEDT NKWKNIPCSWIGRINIMKMAIL HKVIDRFSaipfkl/pkd/fftel EKTTLKFIWNQKRPRISKTILSK KNKAGGITLR

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8658	39026	A	8715	1	1593	MGKKQNRKTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSELQEDIQTKGK EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRLR SRCDQLEERVSADEMNEMK REGKFREKRIKRNEQSLQEIWD YVKRPNLHLMGVPESDGENGS KLENTLQDIIQENFPNLRINKI DRPLARLIKKKREKNQIDTIKN DKGDITNPTEIQTIREYYKHL YANKLENLEEMDTFLDITYLPR LNQEEVESLNRPTGAIEVAIINS LPTKKSPGPDGSIAEFYQRYKE E/PADKQLQQSLSIQNQCTKITSI LIHQQTNRPNHE*TPIHNCFK ENKIPRNPTYKGCGLLPDELQ TTAQGNKRGYKQTEEHSMLM GRKNQYRENGHTAQGNF*IQC HPHQATNAFLHRIGKNYFKVH MEPKKSPHRQVNPKEQSWR HHTT*LQTLQGYSNQNSMVLV PKQGYRSMEQNRALRNAAAYL QLSDL*QT*EKHAMGK/EFPI**
8659	39027	A	8716	1	1578	MGDFNTTLSTLERSARQKVNK DIQELNSGLHQADLIDYKTVKP KSTEYTFFSGPHRTYSKIDHIVG SKALLSKRKRTEITNCLSDHSA IKLELRIKKLTQNRSTTWKLNN LFLNDYWVHNKMKAEIKMFFE TNENKDTTYQTLWDTFKA VCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTTHSKVSRRQEI TKIRAELEIETQKTLQKINESKI QTTIREYYKHL YANKLENLEE MDKFLDITYLPRLNQEEVESLN RPITGSEIEAIINSLPTKKSPGPD GFTAEFYQRYKEE\RPISLMNID/ AKILNKILANGIQHDIKKLIHDD QVGFIPGMQGWFNIRKSINVIQ HVNRTDKNHMIIISDAEKAFFD KIQQPFMLKTLNKLIGDGMYLK IIRAMYDKPTANIILNGQRLEAF PLKTGTRQGCPSPLLFNIVLEV LARAIGQEKEIKGIQLGKEEVK LSLSADDMIVYLEKPIISAQNLF KLISNFSKVS/GYKINVQKSQAF LYTNNRQTESQIM
8660	39028	B	8717	1	2982	

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8661	39029	A	8718	617	1155	SIAYQPKSPGPDGFTAIFYQRH KEELLISNFSK/VSGYKIDVQKS QAFLYTNNRQTESQILSEFPFTI ASKRVGYLGQLTRDVKDLFKE NCKPLLNEIKKDTKKWKNIPCS WVGRINIMKMAILPKVIYRFNA IPIKLPMTFFTELEK\TTLRFIWN QKRDHIAKSILSQKNKAGSITLP
8662	39030	A	8719	1	1827	MGKKQSRKTGNFKKQRHLSFS KGIAVLHQQWNKAGQRLTFDE LREGFRPSNYSKLQKEIQTGK EVENFEKNSDECITRITNTKKCL KELMELKAKARELREECRLRS RCDQLEERVSGMEDEANEMKR EGKFGEKRIKRNEQSLQEWDY VKRPNLRLIGVPESDGENGTKL KNTLQDIIQENFPNLARQANIQI QEIQRTPQRYSSRRATPRHIVR FTKVEGKNIKGSQRERAEIQT REYYKHLYSNKLENLEEMDKF LDYTLPSLNQEEVESLNRTITG SEIVAIINSLPTKKSPGPDGFTA FYQRYKEEVVPFLKLQFSIEKE VILPNSFYEARIIIPKPGRD KENFRPISLMNIDAKILNKILAN RIQQHIKKLIHHDQVGFIPGMAI RQEKERKGIQLGKEEVKLSLFA DDVIVYLENPIVSAQNLLKLISN FSKVSGYKINVQKSQAFLYTNN RQRESQIMSELPFTIASKRIKW GIQLTRDVKDLIKENYKPLLNEI KEDINKWKNIPCSWVGRISIVK MAILPKVIYRFSAIPIKLPMTFF ELEKTTFK\FLW\NQKRARIKAS ILSQKNK/AGGITLPDFKLYYKA

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8663	39031	A	8720	1	1551	MEKFLDTYTLPRLNQEEESLN RPITGSEIEAIINSLPTKKSPGPD GFRAKFYQRYNEELVPFLKIF QSIEKEGILPNSFYEASIIIPKPG RDTTKKDNFRPISLMNIAVKILN KILANQIQKHIKKFIHHDQVGFI PGMQGWFNIRKSINVIQHINRT KDKSHMIISIDEEKAFDKIHLPF MLKTLKLGIDGMYLKIIIRAIY DKPTANIILNGQKLEAFPLKTGT RQRCPLSPLLCNIVLEVLAIR QEKEIKGIQLGKEEVKLSLFD DMIVYLENPTVSAQNLLKLISN FSKVSGYKINVQKSQAFLYTNN RQTESQIMSELPFTIASKRIKYL GIQLTRDVKELFKENYKPLLNK IKEDTNKWKNIPSSWMGRNIM KMAILPK/VTWMKLEIIVLSKLP QEQT KHRMFSLTGVFIEGRAL QNKSETSQRHPGATHSLPEYTI PGSSPSNFYWFTLGLKEEVTSG WKREKKRKRREGGKEGRKEG RKEGRKEGKKEGRKKGRKEVP
8664	39032	A	8721	1	1983	
8665	39033	A	8722	1	2436	
8666	39034	A	8723	1	3139	
8667	39035	B	8724	1	3558	
8668	39036	B	8725	1	2133	
8669	39037	A	8726	1	3051	MGDFNTALSTLDRSMRQKVNK DIQELNSALHQADLTDIYGTLH PKSTECTFFSAPHHTYSKIVHIV GSKALLSKWKRREIITNCLSDH SAIKLELRIKKLNQNCSTTWKL NNLLLNNYWTNK\KKREKNQI DA/IKNDKGDITTNPTETIQTIRE YYKHL YANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPITGSE IEAIINSLPTKKSPGPDGFTAIFY QRMNYISFKSTWKIKNAYSLA HSRELRDGGQ
8670	39038	A	8727	1	2706	
8671	39039	A	8728	1	2573	
8672	39040	B	8729	70	2029	
8673	39041	A	8730	81	385	
8674	39042	A	8731	301	515	SSWQAPAPVLGSSWASKK*MK KKYAAQQIEKQKSP*CKSIKCSP LRSASYAQLLSFSLSSCLCFSTC HSTLAWYCL*SSWQAPAPVLG SSWASKKRSLLWKEPSRSLPSF SITARS*ACCCCLCSSTEPQLLKA QYLLSHSRTRSRLQ

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8675	39043	A	8732	2	4207	DTHRLKIKGWRKIYQANGKQK KAGVAILVSDKTEFKPTKIKRD KEGHYIMVKGSIQQEELTILNIY APNTGAPRFTKQVLRDLQRD DSNTIITGDFNTPLSTLDRSMRQ KVNKDIQELNSALHQADLIDIY RTLHPKSTENTFFSAPHHTYSKI DHIVGSKALLSKCKRKEIITNCL SDHSAIKLELRIKKLPQNCSTIW KLNNLLLNDYWVHNEMKAEIK MLFETNENKDTTYQNLWDTLK AVCRGKFIALNA
8676	39044	A	8733	1	2770	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VQNFEKNLEECITRITNTEKCLK ELMELKTKARELREECRLRSR CDQLEERVSAEDEMNEMKRE GKFREKRIKRNEQSLQEIWYDV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLRQANVQI QEIQRTPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKEIQT TIREYYKHLYANKL

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8677	39045	A	8734	3	2169	FKPTKIKREKEGHYIMVKGSIQ QEELTILKIYAPNTGAPRFTKQV LSDLQRDLDSHTLIMGDFNTPL STLDTSTRQKVKKDTQELNSAL HQADLIDIYRALHPKSTEYTFFS APHHTYSKIDHIVGSKALLSKC KRTEIITNYLSDHSAIKLELRIKN LTQNHSTTWKLNNLLNDYWV HNEVKAEEKVFFETKENKDDTY QNLWDAFKAVCRGKFIALNAH KRKQERSKIDTLTSQLKELEKQ EQTHSKASRRQEITNIRAELEKEI ETQKTLQKINESRTEIQTIREY YKHLANKLENLEEMDKFLDT YTLPRLNQEEVESLNRPTGSEI VAIINSLPTKKIPGPDGFTAIFY QRYKEELVPFLLKLFQSIEKEGI LPNSFYEASHILPKGRDITKKE NFRPISLMNIDAKILNKILAKRI QQHIKKLIPHDQVGFIPGMQGW FNIRKSINVIQHINRAKDKNHMI ISIDA EKAFDKIQPFMLKTLNK LGIDGTYFKIIRAIYDKPTANIIL NGQKLEAFPLKTGTRQGCPLSP LLFNIVLEVLARAIQEKEIKGI QLGKEEVKLSLFADDMIIYLEN PIVSAQNLLKLISNFSKVSQYKI NVQK\SQAFLYTNNRQTENQIM SELPFPIASKRIKYLGIQLTRDV KDLFKENYKPLLNEIK\EDTNK WKNIPCSWVGRINIVKMAILPK LIGNCSKISGYKINVQKSQAFLY
8678	39046	A	8735	1	5166	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELHEECRSLRSR CDQLEERVSA MEDEM NEMKRE GKFREKRIKRNEQSLQEWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAARQKAPH HTYSKIDHIVGSKAL

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8679	39047	A	8736	1	4553	MGRKNRKLDSRQHSYTSPQSRS HEDPAAVLQALSSSGVVIYQSL VAVQSPLAAPGCDGSRCEVRG LTVGSRYGSWRLAGCRDNEMV NACQSGWCYQNLTVLRGWKV LLEMPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAMKR ELRIKNLTQNRSTTWKLNLLL NDYWVHNEMKAEIKMFFETNE NKDTTYQNLWDIFKAVCRGKFI ALNAHKRKQERSKTDLTLSQL KELEKQEQTTHSKASRRQEI
8680	39048	A	8737	1	2673	MVKGSIQEEILTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDINRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTPWKLN NLLLNDYWVHNEMKAEIKMFF ETNKNKDTTYQNLWDAFKAV CRGKFIALNAYKRKQERSKIDT LTSQLELEKQEQTTHSKASRRQ EITKIRAELEIETQKTLQKINES RSWFFERINKIDRPLARLIKKKR EKNQIDTIKNDKGDITDPTEIQ TTIREYYKHLIYANKLENLEEM DTFLDITYTLPRLNQEEVESLNR PITGSEIVAIINSLPTKKSPGPDG FTAIFY/PESYL*QTHSQYHTEW AKTGSIPFENWHKTGMPSLTAP IQHSVGSQGNQAGEGNKGY SIRKRGSIQVPVCR*HDCLSRKP HRLSPKSP*ADKQLQQSLRIQN QCTKITSILIHQKQTNREPTHE* TPIHNCFKENKIPRNPTYKGCEG PLQGELQTTAQRNKRGHKQME EHSMLMGRKNQYRENGHTSQ GNLQIQCHPHQATNDFLHRIGK NYFKVHMEPKKSPHRQVNP KP KEQSWRHHTT*LQTIQGYSNQ NS\MVLVPKQRYRSMEQNRAL RNNAAYLHYSDL*QT*EKQA WGKGIP\IYKM\AL\GKLAS\PM*
8681	39049	B	8738	1	2792	
8682	39050	B	8739	156	391	
8683	39051	B	8740	1	2824	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8684	39052	A	8741	3	4167	PLSTLDRSTRQKVNKDIQELNS ALHQVDLIDIYRTLHPKSTEYTF FSVPHHNYSKIDHIVGSKALLS KCKRTEIITNCLSDYNAIKLELR TEKLTQNRSTTWKLNNPLLND YVWHKEMKAEIKMFFETNENK DDTYQNLWDAFKAVCRGKFIA LNAHKRKQERSKIDTLTSOLKE LEKQEQTHSKATRRQEITKTRA ELKKIETQKTLQKINESRSWFFE KTNKIDRLLATLIKKKREKNQI GARKNDEGAITTN
8685	39053	A	8742	1	1107	MKVEIKTFFETNENKDDTYQNL WDTFKA VCRGKFIALNAHKRK QERSKIDTLTSOLKELEKQEQT HSKASRRQIQTIGEYYKHLYT NKLENLEEMDKFLDYYTLPRLN QEEGESLKRPMAGSEIEAIINSL PTKNSPGPDRFTAIFYQRYKEE L/PDKQLQQLRIQNQWEKITSI PIHQ*QTNREPNE*TPIHNCFK ENKIPRNPTYKGCEGPLQGELQ TTAQRNKRGHKQMEEHSLMLM DRKNQYCENGHTAQEETAFACT HSRRESSRLGLLVANFRACHQE RFRRERSVPAGVHAEAHPCWE NRGREERHWEQHPGPETVLLQ AGGHVCDQGLHHGQPQVGQV PRGSRGHS GHFQLPSVQDRSWL
8686	39054	A	8743	1971	5654	RSPTAGRNTNYPSTRDYKHL A\NKLEN\LEEMDKFLDYYTLPK T/ITQEEVESLNRPTG\SEIVAVI NSLPTKKSPGPDGFTAKFYQRY KEELHINRTKDKNHMISIDAEK AFDKIQPPF\MLKTL\NELGID GT/YFFKIIRAIYDKPT\ANIRLE WGQKLEAFPFEKLAQEQQMPL LLNPLQSNIVVGKFLA\RAI\RQ EKEIKGIQVEKQEVKLSLFADD MIICLENPIVSAQNL\KLISNVS

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8687	39055	A	8744	1	4901	MTGSNSHITILTLNINGLNSAIK RHRRASWIKSQDPSVCCIQETH LTCRDTHRLKIKGWRKIYQAN GKQKKAGVAILVSDKTD FKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTFFLAPH HTYSKIDHIVGSKALLSKCKRT EIITNYLSDHSAIKLELRIKNLTO SRSTTWKLNLL
8688	39056	A	8745	2	1887	SASVVPASGLRPSSTSLTSRQP RFLGLLRSHPALVAVPGDWD DLAVCCIVAPSHVCRMVFMVD RTLGISLPGLLKREEDACWVEA NINGRVLAQCNIDELKKEMNM NFGDWHLFRSTVLEMRNAESH VVPEDPRFLSESSSGPAPHGEPA RRASHNELPHTELSSQTPYTLN FSFEELNTLGLDEGAPRHSNLS WQSQTRRTPSLSSLNSQDSSIEI SKLTDKVQAEYRDAYREYIAQ MSQLEGGPGSTTISGRSSPHSTY YMGQSSSGGSIHSNLEQEKGKD SEPKPDDGRKSFLMKRGDVIDY SSSGVSTNDASPLDPITEEDEKS DQSGSKLLPGKKSSERSS\LFQA SLK\LKGRGLRLSKLP\SEEDC GAEESDNTP\LLK\DDKDRKPEG KVERVPKSPEHSVEPIRTFIKAK EYLS\DALLDNKGNSSDSWSVD PRES\SPNHVSAQCKCADDLPD LKRHNLI\LED DSHSGKRG\IPH SLSGLDPIIARMSICSSEDKKSPS RIASLD*PSSPAENWP\ACQKA YNL\NRTPTVTLNNNSAPANR ANQNFDEMEGIRETSQVILRPSS SPNPTTIQENLKSMT HKRSQR SSYTRLSKESPELHAA\SSSESTG

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8689	39057	A	8746	1	385	EGNEAQTCSFWNTRRQLASS DPSLSVSQRMDPSWRRSSHSWP QMPDPSGRAPVRPHLAKLEED VWPCPQFHQTKAASGPPFVTFQ PANCFPSVISFHLHCHTWSEQD RAYHPVYQMR**GSDVQLLEY EASAAGLIRSFSEFPEDGPELE EILTQLATADARFWKGPSEAPS GQ/ALRK/SVWPCPQFHQTKAA SGPPFVTFQPANCFPSVISFICT AIRGVSKTGLTILSTR*GNGSSE KSLV
8690	39058	A	8747	2	2015	QDFLDSQNLSAYNTRLFKEVD GEGKPYEYVRLASVLGSEPSLD SEVTSKLSYEFGRSPFQVTRG DYAPILQKVVEQLEKAKAYAA N\SHQGQML\AQYIESFTQGSIE AHKRGSRFWIQDKGPIVESYIG FIESYRDPFGRGEFEGFVAVV NKAMSAKFERLVASAEQLLKE LPWPPTFEKDKFLTPDFTSLDV LTFAGSGIPAGINIPNYDDL\RQT EGFK\NVFAGGIVLGCGLTPRK REK\LTFLLEDDKDLYLWKGPS FDVQVGLH/ESLLGHGSGKLFV QDEKGAFNFIDQETRDPPQKRG EQIQSWNRTGETWDSKFSTIAS SYE\ECRAESVGLYLCLHPQVL EIFGFEGADAEDVIYVNWLM VRAGLLALEFYTPAFNWRQA HMQARFVILRVLLEAGEGLVTI TPTTGSDGRPDARVRLDRSKIR SVGKPALERFLRLQVLKSTG\ DVTEGRALYEGY\STVTDAPPE\ CFLT\LR\DTVLLRKESRKL SVQP NTHLEGNE/VSDVQLLEYEASR AGLIRSFSEFPEDGPELEEIFTQ \LATADARFWKGPQ*GPHSGPS LRKIVVALPPKFHQTAA\SGPS HSVCVFRGWGGGGAGAWTLV L\PQLEGW*HNPLPICQHVSSLP NCFPSVIL/SFICTA\IRGVSKTGL TILSTKMR\NGSSEKSLV
8691	39059	A	8748	1	519	
8692	39060	A	8749	786	864	
8693	39061	A	8750	1	468	

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8694	39062	A	8751	128	605	MTWGTVPFLFHIFQMRCCHWSC QGIMRGWGLCSQTLNCLLSK C*TC SRGGGQIWSRKFR LVRVE *G*GNFKTPELQQPGVPPGLPP PGSCFKCRKSGHWAKECPQPGI PPKPCPICAGPHWKLD CPTRLA ATPRSPGT LAQGSLTDSFPDIRG LAVED
8695	39063	B	8752	1	615	
8696	39064	A	8753	1533	1767	PSPTCPAIYS*KGGWSQRHSQG ACYTCRKSGHWAKECPQPGIPP KPRPICVGPH*KSDCSTHLAAN PRAPGT LAQGSL
8697	39065	C	8754	84	329	
8698	39066	A	8755	911	1497	SQRKARDQRRKRNRKASSIAK HKEPKRPILPSGKNSQEGVATH TKPLAQGKVWLD P/NETNEIPN ANFRQQIRKLIK DGLILRHRKPV TVHSRAQGWKSTLARRKGRHL GIESKKIDRHMYHSLYLKLG N VFKHKRILTEHSHKLKADKAR KKPLADQAEARGSKTKEARKL REEHLQTKKEEIIKTL SQEEKAK
8699	39067	A	8756	34	280	EVIHAAIGEEKKGSY/NA**PWVE EQLTRQPLIHHQPASLH SVY/RC RYHSLYLKVKGNVFKNKRILM EHIHKLKADKARKKLLA
8700	39068	A	8757	1	692	AFLQELCLKSSTGELFPFAAV AAALSMLRLQKRLASSVLCCG KKNIWLD PNETNEITNANSRQQ IRKLIK DGLIIRKP\TVHSRLRC RKNT\LAR*KGRHMGIGKRKV PANA\RMP\EKVT\WMRENEGF CRR LASEDTRES\KKIDRPHVVT ALYL\EVKGNVFKNKRI L\MEHI HKLKA\DKARKKL\AD\QAEA RRSKTKEATKRREERLP/ARPRK REII*TLSKEETKK
8701	39069	A	8758	46	131	
8702	39070	A	8759	5	447	PATELPGLPTRPGMLCIWRGAP DWPEGPPSSGELSSIQPTQGLHN CFQPDGARPAAPGPVPGQLGAL PWSCRPPAEPTLFMESLVQWPP GDGIRQ*CEDAAELREPGVQRH QGSPG*VRTLPPLRGPSQVPA/G SSSSASPR SIPGSRG

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8703	39071	A	8760	1	201	MPNIYTM EY YAAVKKDEFMSF VGTWMKLETIILSKLSQGQKTK HRMFSLIGTRMKLETIILSKLLQ GQKNQTPYILTHRISFEDVRNY MPLAVIHSDPILPLHEQQDAS ENGWIKDTERDADLEIYIVSGIG SFRWVLGLADFKSEAADPCGM KLQTFAVSVTALKGGASRVVH SSWWVCVLTDFRSEAAYLSVT ALEGGASRV AHSSRFVVS LTSG VKLQTF TVNATAHKGSADPKS EQHQDLLQRAKKHTFHSMKGE PRRVVAAGWGGAIKADSNLI LLFQTIEKYCPWFPDKGSVDLL DWDRVGTTLCQLMRDGVLLPI SVWTDWALIRVALLPFQSGDTL QLPQVNADVEPLPLPRCIGGITG PEGGDPPGPSFHLYLVGVYYFLT CRSTWEQRKSPVALR**KLGP GSPSPGPVMPPMHRGKSGSTS ALTCSG
8704	39072	C	8761	42	179	
8705	39073	A	8762	11	1713	PKTLKMGGGTAGLVGMGFSTT G\RTPSAPGRPHPCRGA/GSPG KAGLFLQRPLGTGL*GSAPRG PG*MGCP\GTGRGSNSRH*RGPP RRPQAS*AAPFQPGPLETWTGP *SQVPGAPSPCNFSYPHREVPP WGPVPPAPHGSCGWALALPR RKRAAVFSSWAPGQAGQLLDA ASVGAAP*QDIPPCRGSAPSPC SPHPPPGLES GPK\PGAASWAGP QTPFSGRAQQLCQEGPAGAGN TSGRSA*AASAGTCDGPRSGGR VRTYPGLP*CRWTPGSRSSAAS SHHCRMPSPGGHCTRLSMKRV GSAGGRQLQGRAPS*PARGT*Q RPRGGQSGLAAPLESRH*DGE *AFWRAETVRSSVQRRREFATG LSGPSS*PRWSTCSVP/ASSPGG GDVAGPQEGPRSFHCLPSCL*V RPSHPEGDAA\ P*GALHK*RMH EEGRPGPCGGWGLV/GSWEPV QGCRRNLARWGRAWNCLQFPE *PPGGPGLADSGFHQTARLNFQ GWASVSFSIKRPGRAILRPCPTS EFLLPESFVSGNCSSTERAMWP FWAPPRSAPGAENFPCASVPCK

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8706	39074	A	8763	1	409	LTHLTAQNVPNLFARNERVICL FDTEFGPMAQILVGATIVGSIET VWAGTITPPREGIHKRWTPAG ENDGSVALLKGQEMGRFKLGS TVINLFAPGKVNLEQLESLSV TKIGQPLAVSM*SKATQLGNPR
8707	39075	A	8764	1	1528	MTFVNAQAEDSQIFLYKRRYVP VEGYAPWLVSNGASELERIHYE GMDDVILLDFLPKELGFDMMN HILSFAPGANHGYIEHTFKEHG GATQAFAKENNHKAYKDTYG VSHITRHDMLQIPKQQQYKEYQ DTHDTPYCEPLPGETRLWGD DVIGLFD AETDMNDVVAILENH PLL GAGFAHKIEQLEDKDWERE WMDNFHPMRFGERLWICPSWR DVPDENAVNVMLDPGLAFGTG TIQTLSPAMLDSSHTRRMRS TLNLYEITRMSTVSTSEHSMTY TLVQVDMKEAQKPD TASYRTF NEFFVRPLRDEV RPIDTPNVL VMPADGVISQLGKIEEDKILQA KGHNYSLEALLAGNYLMADLF RNGTFVTTYLSRPDYHRVHMP CNGILREMIYVPGDLFSVNHLT AQNVPNLFARNERVICLSDT EFGPMAQILVGATNGGSIETPESE GATVDES FVVGPGVGFELL LC \QERSALSGRCVI*SFNSAKVRFI QQRPRPVKSA
8708	39076	A	8765	2	420	QNFKEIFVRPLRDE/VRPIDNDP NVLVMPADGVISQLGKIEEDKI VSNLFARDERVICLFDTEFWPN AQ/ILVGATIVCSIETVWAGT/IT PPREGIHKRWTPWQAIEEDSWQ NLGRVAG*NKLPTLCNNFDW AQTLSSRNRG

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8709	39077	A	8766	1	1130	MHFAKKEDVSEIETGSDGEKPK ARAGCLIGNSERLFSVTFCVQF QATLPLSYTIMKHKD'TGTSSVP ESIDASLEASQQNPAFLKTLTRS CSPSWPCSRNWPHELLPLTCTPA QAGATPQLPGLGPPGHLPMNQ PASSFPP\RPNAASQILTSTFHKP PPGSSLACCCCPGPCDWQEDSQ *PTPACPSWPPWPTQLSPSAAGS PI\HSPIQGFHSQLLS*RSPTGTEE P*EANKLPPWTGHRPEPEHPGL PGHPCAAG/MHRPLAPTTA\RPL ATLHGERQRHLHPGQRRRVPR APAESTEAPALWLHRPPECPEC SGHGPAALEQGAGMA*CRSCR HLPCFPGEEADAGSREGPHQEV PRSKICQQPQAASFRICLHSIF
8710	39078	A	8768	179	1908	KKQNKSRGCNVNWAMRRALK MCIPYRNHGSIFLVMVKVERSK RFALKLSVAEKNQMPRNATVIE NSAGYSYGKMAFS*PRICTQIV GPRIISTTAVIS/SQPATHHRATR GAIIRTAFCGPCFGAGDTPINNG LSIRHTTRNFPNREGSKPANGQ MSAVALMDARSIAATAANGGY LTSASELDCWDNVPEYAFDVT YKNRVYQGQFVKGATQQPLIYG PNIKDWPELGALTDNIVLKVCS KILDEVTTTDELIPSGETSSYRS NPIGLAEFTLSRRDPGYVSRSK ATAELENQRLAGNVSELTEVFA RIKQIAGQEHDPLHRVYRHCS RSGNCPDVFDSKKDPVQDHRP QKRVTLIWGYDIHPQIEIIQTGD NFFQFRAIANNFGFLRFYQIRHF GLSGQHGVQIFTADVERGVGL RLQRFPPVVKHAIVQRQVEVIAV AHIEVQADIFTRSFRATIEANGHK VEQHFDHRHPANGVRGTGGAVA ELMHPFAQLFRAGQVETAPCG GLGLIAQLFKVIRLQILRGESKK FSANLTALKLPLPMVYEGDKV LKHLLRPKFNLPPLVQPPKKML
8711	39079	B	8769	1	1881	
8712	39080	A	8770	2093	2287	

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8713	39081	A	8771	1	1358	MKINLKLTDNSKVADGQFANI VVFLINWFYIHATTCEIDNGGVI VADGFQASKAYSADSIVDYND AHYKTSVDQDAWGFVPGGDN PWKKYEPAKAWSASTVYVKG DRVVVDGQAYEALFWTQSDNP ALVANQNATGSNSRPWKPLGK AQSYSNEELNNAPQFNPETLYA SDTLIRFNGVNYISQSKVQKVSP SDSNPWRVFDWTGKERVGT PKKAWPKHVVAPYVDFTLNNH HRRTDSFRSKATAELENQRLAG NVSELTEVFARIKQIAGQEHDIP LQTEIGSMVYAVKPGDGSARE QAASCQRVIGGLANIAEEYATK RYRSNVINWGMLPLQMAEVPT FEVGDIYIIP\GIKAALDNPGTT FKGYVIHEDAPVTEITLYMESL TAEEREIHKAGRIRHLLSDAMLA HLIRPTNRIESVGQIRHFRSIRHL LSDAMLAHLIRPTNRIEP
8714	39082	B	8772	21	1623	
8715	39083	B	8773	32	1850	
8716	39084	A	8774	1	1193	MSEVEAAAGATAVPAATVPAT AAGVVAVVVPV PAGEPQKGGG AGGGGGAASGPAAGTPSAPGS RTPGNPATAVSGTPAPPARSQA DKPVLATRVLPGTAKRFNVRS GYGFTNRNDAKEDVFVHWT VKRNNPRKFLRSVRDGETVEFD VVEGEKGAQATNVTGPRAAGV PMKGSRYAPNRRRFR*FIPRPPS VAPPPMVAEIPSAGTGPGSKGE RAEDSGQRPRRWCPFFFYRRR FVRGPRPPNQQQPIELTGAFACS QGTDRVEPKETAPLEGHQQQG DERVPPPRFRPRYRRPFRPRPRQ QPTTEGGDGETKPSQGPADGSR PEPQRPRNRPYFQRRRQQAPGP QQAPGPRQPAAPPEEAPTEAIKP MIAHDGHAPPNPSPTCCLEPSY QLVDVN

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8717	39085	A	8775	3	933	RHQESLCAPLEILQKKGCPCLE EPLQRQPCPCQSSEVTA**NISF RFASPGGN/SPWASH*APSVRG AAPAGPVGLEAAAGSEPHGP/ PDAGGARPVPGGAGSRPRMVL/ SPRSAPHLGGGRSA/PAMRTGN PCTHTQVVTTSPNLPNIP*GAKS HPI/VERPLS*KGTGPSAPQIATE NIYP*QLHGKGPLIRD*KIVPHD GAAGQSPLLPVRSCQRGYLPSA K*FFDALKIKFTLKLHLRRFSC TSLRGLLVSPLLPVRLLLAG WAHAWMHGCGGWEPRITQQR ASCQLPDRTKSKMRVKIPAANS SWLCH
8718	39086	A	8776	3	925	RGSEQIPPSSIPGAP*KMLFPSG/ SSEPEHL*TVPASSLGCRPGGPV ASRSRPPRPPARAALRGPPASSP IRFP\GASPRAPPTS*MRSGAGS KT/TPRPGPSASGDRPRAPCVRG PGCGSEPAASSPTGPAG\VPRA R*GPGHGQTSPhGW*PSSMQQ RTRRCSPSSVPGQFLLP/LSCS QVSPWTW*GLPYSLIPVSSLLP WPEDRVPSSFVA/GLPSPFDNTS LPVEGGS*L/HPVCLLYVYQENS SKHIPYSCRGSRIFPFSQRQRM AGQRKLCDHPPGLISKPLAWT RIPEAPVVAAMVEGGGGL
8719	39087	A	8777	144	503	
8720	39088	A	8778	15	427	
8721	39089	A	8779	1	1055	
8722	39090	A	8780	280	1480	FQTRMGISVATIPGTSCSWSMR ASEKEKDTFESTVQVSKLQDLI HRSKMARCRGRFVCPVILFKGK HICRSATLAGWGELYGRQATT YFFSGGADDAWADVEDVTEED CALRSGDTHLFDKVRGYDIKLL RYLSVKYICDLMVENKKVKFG MNVTSSEKVDKAQRYADFTLL SIPYPGCEFFKEYKDRDYMAEG LIFNWKQDYVDAPLSIPDFLTH SLNIDWSQYQCWDLVQQQTQNY LKLLLSLVNSDGQTDKSLVAI RTSVGVALAQTSGNALAYGTK KAQEQSQDGLIHTSLKPTEILYL TVAYDWFLFGHMLVDRLSKGE EIFFFCFNFLKHITSEEFSAKLTQ RRKSLPARDGGFTLEDIC*DE RTVAVPPDLVCDCLPGHGEFPR

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8723	39091	A	8781	2	588	HSFFFPNREKCSTKR*RLSASRF PP*PWSRLPSG/QPAGGASAGSP SAPRGTGRGAGSRPAHG/VQPP RAHPEAPCPACPRSVGGAR/RA PEPSSNLSGEAPASGDRDVPPPS PLAR*VPLGGREFGWPWANAA LRPGKTP/RSDRVS/RSPWS/PAG FSVPASWPRRSTSGNRGPPSRPS RLSRTSGPLNRLGEPFDVQGPL
8724	39092	A	8782	1	198	
8725	39093	A	8783	1	275	MAGAPAPASLPPCSLISDCCAS NQDMSMGVGPSEPGAGYNLVP V\EKRSIRVGVTGFSCCPSPSL TRKGNLSLTPWASQVRQCLALL QLAH
8726	39094	A	8784	349	478	KLSKFPYTEELSSGLYGIGSLCP HKYNCLVSSHRCCKN*VTGY
8727	39095	A	8785	1	325	FSEGN SYLVGIMHPLKAML PGL QYQTETFP PPGYLM/PCRLQQQ SHLLTLRDCCASNQRDSVG VGP SEPGAGYNLVVRRFLSLLEKRSI WVRVTRFSSALNHELKVNDH
8728	39096	A	8786	113	313	
8729	39097	A	8787	2	1991	
8730	39098	A	8788	512	1178	
8731	39099	A	8789	135	1562	DTLVPTSQGDISRGLEGNLNSC PT*Q**RAPFLWCQ/PKAEWGT WIFNPEAEESLEPRSLISDCCAN NQRDSVG VGPSEPGAGYNLVV RSFLSPSEKRSVRVG VTRL SRCR PSPLSLTQKGNPLTPCASQVRQ CLALLRLRHVYFYNFGWKDYG VASLTTILDMVKVMTFALQEG KVAIHCHAGLGRTGVLIACYLV FATRMTADQAIIFVRAKRPNSIQ TRGQLLCEAQQSGAFSADVSGS HSPGEPVSPSFANVHKDPNPAH QQVSHCQCKTHGVGSPG SVRQ NSRTPRSPDCGSSPKAQFLVE HETQDSKDLSEAASHALQSEL SAEARRILAAKALANL NESVEK EELKRKVEMWQKELNSRDGA WERICGERDPFILCSLMWSWVE QLKEPVITKEDVDMLVDRRAD AAEALFLEKGQHQTILCVLHC IVNLQTIPVDVEEAFLAHAIAF TKISII FVNQNPEVTVLL
8732	39100	B	8790	563	2017	
8733	39101	A	8791	108	194	
8734	39102	A	8792	1	164	

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8735	39103	A	8793	1	1068	MEESRYWGTGRNRREGLKLQ WAQPAPLFNIRQGPNEGDNQQ GSYWEALASIMQIIHLVPSGLG MVTAFHCSWYLSTTATFPGVL NPALTEIKSGNYYVHGSFILQV ADYKEFQTLLMITKATFHQKTQ CWACEEGVQQSFHPCRMQAA ASVERYTELLKEFLFKEHTCDN QEPTSTLHYHSLKTVHIHVYSS RCTLPCQPSQAAQAEGISQPAP ACEDFVFAALAPP/ESG/RCPTL RLLGGLCTPTNARRTRTHSTTA CWARAQWDSLGPLKLSHR\PR VCGGTRAPGRQGCMMGNQRLGT SNSEARDPGGLRVKHR/CEAIQ EPPNRSRRQGAPLHSPPAY*MS SWRP*SFSKRHNLS
8736	39104	C	8794	78	331	
8737	39105	A	8795	129	1734	QWMHRMLDIFKGSSQHPSVPR VSSRPPLGPQGYSLHHFGTQGI HSATPINTQGLQPAPMGTTQPPQ PEGKTSVVADGATIVANPIS NPFSAAPAATTVVQTHSQSAST NAPAQGSSPRPSILRKKPATDG MAVRKTLIPPQPHDVASPRVES SMRSTSGSPRPAGAKPKSE\STC LWPLRSLCPWRLYPIKIMISLPL PSLKLPSPPHPPFQL*LQQPVPR HNQPLPFQPFLESPSLHPSPL\A HCTTSISHCGWQSFLRLGPSRS* N*SERRSRTNGYHEASF\SVPL ATNTVSPSLALLANNLSMPTSD LPPGASPRKKPR\NNSMWISTEE GDMMETNSTDDEKSTAKSLLV KAEKRKSPKEYIDEEGVRYVP VRPRPPITLLRHYRNPWKAAHYH HFQRYSDVRVKEEKAMLQEI ANQKGVSCRAQGWKVHLCAA QLLQLTNLEHDVYERLTNLQE GIIPKKKAATDDDLHRINELIQG NMQRCKLVMDQISEARDSMLK VLDHKDRVLKLLNKNGTVKKV SKLKRKEKV
8738	39106	A	8796	1	169	RPTRPPKSNKRQCLVFVTPKEE EPVRNILEKFNTISGSKVRSLYL HAPLLPLER
8739	39107	B	8797	156	398	

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8740	39108	A	8798	20	723	VWGGFEFLPRIWFMLPTSHQWM LFSVFLGWGSCQWSCSHLLSCL WRAAFSEFPLGPEPGEGIGPELC LCFQMEAIELSVDPKSNKRQCL VFVTP\KEEEPVRNILEKFNTISG SK/CTEVQRGVIYPGHIR*R**SI PRGF*FYSK*GRPDSAGGHGPG GVLQGEKGHSACARQGGRFQE GAAFAQRETAGRVRVQQRWCG DCFRTPVHRKSLSSPNFGGFGA GSEAVPCHLVLYLVW
8741	39109	A	8799	79	256	LRLTLLFFQNLGKSSMLWTA HPCPEGACSSSCTSLGSHLLSS FPVLGR*PGPSGDH
8742	39110	A	8800	402	996	TFFKFPPDSGAQLASPRGSRIGA AGGAA\SSPEPSAALLSPWVVD GTGRPGAGGGARRGGSGCTGA HGGGGSSGM/VG/PAGPEPCPA GRQLRPGEKSSAAPLREPASAL AGPERGSHSAAAG*RAPQ\GRQ SGSPGRGGAESERGL*GLPSCC HLSPGSGAAA\PRSVGSRWPC GA\PTLATPPTSASFFSAATPEGP PLAS
8743	39111	A	8801	7	602	TFFKFPPDSGAQLASPRGSRIGA AGGAA\SSPEPSAALLSPWVVD GTGRPGAGGGARRGGSGCTGA HGGGGSSGM/VG/PAGPEPCPA GRQLRPGEKSSAAPLREPASAL AGPERGSHSAAAG*RAPQ\GRQ SGSPGRGGAESERGL*GLPSCC HLSPGSGAAA\PRSVGSRWPC GA\PTLATPPTSASFFSAATPEGP PLAS
8744	39112	A	8802	262	349	KEGEGGK\PD*PVRMCPPKPSG HWKHPGE
8745	39113	A	8803	2271	2863	GGASGVVRSSWWARGLAGFRS EAADLRGLPVELRASPAPCVRT PQPLGGR\GIGRPGAEGGPCWG GSGRTGAHGAEGAGSSLGQP RKGLPQCSGG/PEGLLKCGQSG SPGRGRAQSERGL*GLPACCHL SH*PQGRQI*PRTCPTPFQSKTS DQGGPSGPAVSGSERQV*LHHQ *PGCRDYLCPFCWEINPVWG

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8746	39114	A	8804	3	561	NCPSLLVESCFCQECGSSIPFALPS TQVEHALYASER*QRAGSPHSP HSLVPPPLPGLPLWRHLRSPS/G PPLH*PP*ASTLTGGPQ*RLGSA GINVSSEPVSSSRPNV*SFPFPQY TVTLVKGWRSREPSKSSVLGS/ MVP*STKSEP*REPP*SLTGKA GERGEKGREKAIGSGR*GVAKC SDHVR
8747	39115	B	8805	298	380	
8748	39116	B	8806	1	1292	
8749	39117	A	8807	1	1224	MKPRTLAVSVTALKVARLEFV PSDVRMCSEFLPSGGLVVSLAS GVKLQTFAVSVTARNVDPKN SGAQLASPSGSSTRAASGAAC* SPSPPPCARTPQPLGGRIGTGCP GAGGGTRRGGSGRTGAHGAAE GVGSLGQPRKGPTVQWWAE GLLKCRQSGSPGRGGAESKRGL *GLPASTLSP\PPG\ECAGKSENS HMNLNCSGSLGPGTGAHLPL GPDGQPAETLLWGPPCGPGG TGLTGSGQTISLGCQGGQPRRE VKPPVPQRVSVLLVAVNPPDS RCRVETDRPWRLCIQSLCGTL KRDVLHSPSVVFNTTRGGTAE WSREDKDALLPEYALHMPFAV GFKLEYKEGVLGSNLAAGPEK ELCEAKRNQCPKSGVSHTSRPL KPEWSDFVAEIDESKLPDRS
8750	39118	A	8808	1	1298	ESLRAGSFQQEIQPELAPLIILRG FGTWPGWSFQATGFCVGVGRS PGSGFRGCGAYRAP*SFRTQLW PWQPLQGLDPKPLKDALRPSPL GRRACAEHHLCSADERPDLGFE GLQRWGGCRGSQGKPAVHQA WGRCGEGTGGGHTGSPPRLTP P/PGPGSFRAQPGERRPAACGQ QRALGPMRPPAC/GPSPT*GCA LNPTSPAPLV*GFIHIVAAFCF VTPVSKSHSFQLGGELRVAGSD AGRWGERENTQGSLPPSSPAS SPGSPSPDPATPPGPATPGLIDIL LLLPMVASSRKHDF\SGFSGRLP PQGEFFQ*GPTGWQSWVWPLD PSYLGGCQGGCGQGPRTGRRG ASSHCCVPAAP/GLSMDCSRGS GGSPRSPPWALLGDLPSSLET VCLVMMFPCPIWMASEFAMEI QLLGPFWQIMLIGLCW

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8751	39119	A	8809	2	662	RIPLLVTSLKINEKVLQVLTNIF LFHDFSVQNFIFKGLQLSLEHFY SQPLSVLCCNLPEAKRRINFLSN NQCENIRRLPSFRRYVEKQASE KQVALLTNERYLKEETQLLEN LHVYHMNYFLVLRCLHKFTSS LPKYPLGRQIRELYCTCLEKNI WDSEYASVLQLLRMLAKDEL MTILEKCFKGFSYCENHLGST A*RIEEFLGQFQSLDEPRGR
8752	39120	A	8810	326	1215	NPILHGNFIFMLDHSKLVQDQ E*TLM*/HYGPQVVTMCQCSFIE RNKRIPVVQGIRRGHVGW RYVEKQASEKQVALLTSECL KKETQLLENLHVYHMNYFLV LRCVHKFTSSLPKYPLGRQIREL YRTCLEKNIRNSEEYASVLQLL KMLAKDELMTILEKCFEVKSS CEKHLGSTAKRIQEFLAQFQSF DETKENEALKREGCIPNITPDI CIAKLYLECRRLINLVDYSQA FATILTAAEKMDANSTSSSEEMN EIIYAWCIRTVFELELLGFIKPTK QKTDHVARLT
8753	39121	A	8811	70	613	SLLEMKELRRSKKQTKFEVLRE NVVNFIDCLVREYLLPETQPL HEVVYFSAHALREHLNAPRI ALHTALNNPYYLKNEALKSE EGCIPNIA\PDICIAKYLHLECSR LINLVDWSEAFATVVTAEEKM DANSASSEEMNEIHHARDIRAVS ELELLGFIKPTKQKTDHVARLT WGGC
8754	39122	C	8812	598	762	
8755	39123	C	8813	138	296	
8756	39124	A	8814	1	395	

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8757	39125	A	8815	2	1289	DDLALAFKVLHDKQRGPTGF YAPFNSRPL*KPQLAHSIILMET ATERISRLLLPFADQHVEIPSLT AGNIALTVGLKHTATGDTIVSS KSSAL\QLVEPNGREKRSTDK TMKAERLLLAGSGRFQEPVFFC TIGTPITV*GSQIWEHAFEMSFS VRIPVLKVRLLDPDSGQTV\LCG MGELHIEIIHDRIKREYGLETYL GPLQVAYRETILNSVRATDTLG *EL*GDKRHLVDLLGSGKARPI ETSSVMPVIEFEYAESINEGLLK VSQEIENGIHSACLQGPLLGS IQDVGNLYLYIP*QIHPWAPSTTY DFCLCLKMPCKKALKERKADKQ VLEPLMNLEVTVARDYLSPL ADLAQRRGNIQEIQTRQDNKV VIGFVPLAEIMGYSTVLRTLTSG SATFALELSTYQAMNPQDQNT
8758	39126	A	8816	545	849	LAIHLSSL\SRHDDEATRST\SE GLEEGEVE\GETLLIVES\EDQAF S\VDLSHDQSGGISLNSDEGDVS WMEEQLSYFCDKCKQKWIPASK ELLNSFDLSIPV

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8759	39127	A	8817	1	2395	MDSSIHLSLISRHDDEATRST SEGLEEGEVEGETLLLIVESDQA SVDLSHDQSGDSLNSDEGDVS WMEEQLSYFCDKCKQWIPASQ LREQLSYLGDNFFRFTCSDCS ADGKEQYERLKLTHQVVML ALYNLSLKSGRQGYFRWKED ICAFIEKH*TFLLRNRKKTSTCR STGAGCLSVGSPMYFR*GA*EF GEPRWWKL VHNPLTMKPERE KTAASTLNIFAASKPTLDPIITVE GLRKRASRNPVESAMELKEKR SRTQEAKDIRRAQKEAAGFLDR STSSTPVKFSRGRRPDVILEKG EVIDFSSLSSSDRTPLTSPSPSPS LDFSAPGTPASHSATPSLLSEAD LIPDVMPPQALFHDDDEMEGD GVIDPGMEYVPPPAGSVASGPV VGGRKKVRGPEQIKQEVESEEE KPDRMDIDSED TDSNTSLQTRA REKRKPQLEKDTKPKEPRYTPV SIYEKLLLKRLEACPGAVAMT PEARRLKR\KLIVRQA\KRDRGL PLFDLDQ\VVNAALLLV DGIYG AKEGGISRLPAGQATYRTTCQD FRILDYQTS\PSRKGFRAHQ\T TKFLYRLVGSEDMAVDQSIVSP YTSRILKPYIRSDPHWTPEPDAP LDYCYVRPNHIPTINSMCQEFF WPGIDL\SECLQYPDFSVVLY KKVIIAFGFMVP\DV\KYNEAYI SFLFVHPNW\RRAGIATFMIYHL
8760	39128	A	8818	3	364	GDSVPTAEGGDQVCVILSSVPQ TVWEPMFNKRACG/P*SP*SLSA TSIYPRELKAGTQKDTCPPVFR AVLFTTATQCPSTDAWMNKM WYSRTMECYSALKRKEIPPHAT ARHPMCLQFCRW
8761	39129	A	8819	292	508	ARPGDQATSGGQGTTFQHPLFC FELGGSQNPALQ*PFAAACPVG AD*TKFTFAFCCLK*KRTCCL SLGSRC
8762	39130	C	8820	253	369	
8763	39131	A	8821	295	393	IYFGCLLGEPVVAEAGI\WDN DCVKKQLLSW
8764	39132	B	8822	91	479	

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8765	39133	A	8823	1	544	ARHPDMKKRVEDASILPCNVSL EYEKTEVNSGFFSKSAEEREKL VKAERKFIEDRVKKIHELKRKV CGSDSKGFVVINQKGIDPFSLD ALSKEGIVALRRAKRRNMERLT LACGGVALNSFDDLSPDCLGH AGLVYEYTSAPCPKQSGLCILSS TLGEEKFTFIEKCNNPRSVTLII KGPKNHLLTQIKDAVRDGLRA VKNAIDGCVVPGWCWCRGKW AMAEA\LI*P*APVLKGRAQLGS PKHLLDAFAHYFPKVLCFRNSG FLTFOGNIKKFKAEHSRIQVQL VGVDL\NTGEP\MVASRSKAVW GHT*LW*KKTSLPSTPCTW*IA\ TNILLGLNEIMRAGMSFS*KGF VVINQKGIDPFSLDALSKEGIVA LRRAKRRNMERLTACGGVAL NSFDDLSPDCLGHAGLVYEYTS PACPKQSGLCILSSTLGEEKFTFI EKCNNPRSCHIIDQRTK
8766	39134	C	8824	636	1025	
8767	39135	A	8825	33	1505	KCISASVKVDFSDLLSNNTS*S AFTPTRTQKSSSKLLRKESHYS GMMSIQEKSSENSKVTKKSD DKNSETEIQDSQKNLAKKSGPK ETIKSQAKSSSESINQPELETR MSTRSSKAASNDKATKINKNT VTVRGYSQESTKKKLSQKKLV HENPKANEQLNRRSQRLQQLT EVSRRSLRSREIQGQVQAVKQS LPPTKKEQCSSTQSKSNKTSQK HVKRKVLEVKSDSKED/GKSSN **SNKFS/SKGKNAR*NIR/SACA CSSQCTQGSEKCPQKTTRRDET KVPVPTSEVKRSKMATSVVPK KNEMKKSHTQVNT/KHNTPK KSTAIAS*TK***AGASRKEQTR *YSPA\REEIAGEIESDNVEVKK ESSQMESVKEEKPEIKLEETSV ERQILHQGTNQDVQCNRRFFPS RKTKPVKCILNGINSSAKKNSN WTKIKLSKFNSVQHNKLDQSVS PKLGLFTNQFFTSFRNASSSDS KYIFRDKAT
8768	39136	A	8826	1	394	AISRALGRYVLPCLIQDGIFVA HTAHAILTSLED\SL*MFQPKTC WCL\AN*HDTLSVNMETPHPSF QEELSGLLLLKMLRSPIEASKD KDKVKSNAVRALGNLLHFLQP SHIE*PTFAQINEEAIQALIS

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8769	39137	A	8827	52	730	KSACDALSSILPEAFRNLPNDR QMLCITVLLGLNDSKNRLVKA ATSR\ALGVYVLFPCLRQDVIFV ADAANAMVMSLEDKSLNVRA KAAWSLGNLTDTLIVNMETPD PSFQGRVLWSPAENGYDQAL EASKDKDKVKRH\AVRALGNL LHFLQPSHI/GKTPHLQKFI*GSL SRALNLLF*QKLAMKVRWNA CYAMGNVFKNPALPLGTAPWT SQAYNALTSVVT
8770	39138	B	8828	47	1576	
8771	39139	A	8829	2	2753	
8772	39140	A	8830	1	273	
8773	39141	B	8831	104	206	
8774	39142	A	8832	1	987	
8775	39143	A	8833	111	2187	DERRVGAADMFGRSRSWVGG GHGKTSRNIHSLDHLKYL YHVL TKNTTVTEQNRNLLVETIRSITE ILIWDQNDSSVDFDFLEKNMF VFFLNILRQKSGRYVCVQLLQT LNILFENISHETSLYYLLSNNYV NSIIVHKFDFSDEEIMAYYISFL KTLCLKNNHTVHFFYNEHTN DFALYTEAIKFFNHPEMSVRIA VRTITLVYKVDNQAMLHYIR DKTAVPYFSNLVWFIGSHVIEL DDCVQTDEEHRNRGKLSDLVA EHLDDLHYLNDILIINCEFLNDV LTDHLLNRLFLPLYVYSLENQD KVFLIIHHAPLVNSLAEVILNGD LSEMYAKTEQDIQRSSVLP TLSS LWQGSLSLNQLQSGLHKCSS HLCGAQAAADS VTGEIPAIRSL EWLISAGSKARTFFFLKMLIGF WEKVDCEYQRRQVLSTRLQEA LPSNRLTDVA AVHSSCMLGFGS TAPRGSWIGDPAAVHLPLPGEL AEHLGSKGTTTVTKHQPAKPS IRCFIKPTETLERSLEMNKHKGK RRVQKRPNYKNVGEEDEEEKG PTEDAQEDA EKAKGTEGGSGGI KTSGESEEIEMVIMERSKLSELA ASTSVQEQTNDDEEKSAATCS ESTQWSRPFLDMVYHALDSPD DDYHALFVLCCLYAMSHNK/G KSPEKEEGLSGTQSHPGKAGTF GKEGAEERKRAQV

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8776	39144	A	8834	1	3050	RNLLVETIRSITEILIWGDQND SVFDFLEKNMFVFFLNILRQKS GRYVCVQLLQTLNLFENISHET SLYYLLSNVYVNSIIVHKFDFSD EEIMAYYISFLKTLCLKNNHT VHFFYNEHTNDFALYTEAIKFF NHPESMVRIAVRTITLVYKVS LDNQAMLHYIRDKTAVPYFSN LVWFIGSHVIELDDCVQTDEEH RNRGKLSDLVAEHLDDLHLYLN DILIIINCEFLNDVLTDDLNRFL LPLYVYSLEN
8777	39145	A	8835	111	270	
8778	39146	A	8836	240	406	
8779	39147	C	8837	86	286	
8780	39148	A	8839	172	243	DPS*EARSMLLLFLPPDHSGLP H
8781	39149	A	8840	280	526	GRNAVVS*AHCRSQTGPK*S SL/LVFPSS\WYRHMPPHLAN* KKFFLHRDGGDLMLPRLVWNS WPQVILPPQPPKALGLLL
8782	39150	A	8841	3	1785	VLDARNAGAGGLAGPAGVLRG RASRCDPGAAGVAGQGGRVVR PGRAAAPSPPGGA*CVPTDA GAGPGSAGARQPLFAAGALS HSGHC*RGLRPGSLASPAQAK AAWSGLLLSPAAAGRDGGRGH NPRDPPLREHGPGIPGFHGD R*ELYQCHLGEGG\GPDKPGS PCASCGLDGHWRALLLETFRP QRCAQVLHVDYGRKELVSCSS LRYLLPEYFRMPVVTYPCALYG LWDGGRGWSRSQVGDCLKLIL GKAVNAKIEFYCSFEHVYYVSL YGEDGINLNRVFGVQSCCLAD RVLQSQATEEEEPETSQSQSPAE EVDEEISLPALRSIRLKMNAFYD AQWKENGYYRAIVTKLDDKSV DVFLVDRGNSENVDWIINMLL RFLTNQEQEETISKVIAQAGY AKYQEFETKENILVNAHSPGHV SNHFTTESNKIPFAKTGEGEQK AKRENKTTVSKALSDTTVVTN GSTELVVQEKVKRASVYFPLM QNCLEIKPGSSSKGELEVGSTVE VRVSYVENPGYFWCQLTRNIQ GLKTLMSDIQYCKNTAAPHQ RNTLACLAKRTVNRQWSRALIS

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8783	39151	A	8842	2090	2901	THLLVPGMQPLTWQMPFSPFLS ISPTRSNLPSAATPVIAQWA/HE QSGHGGRDGGYTWAQQHGLA FTNTDLATVNAKIGFAYPVCD SAKTTIRGLLECLIRCDGIPHSIA SDQARIHRSRNQEVEVEVAPLT ITPSDPLAKFLLSVPVTLRSAGL EVLVPGEGMLPPGNTRTIPLNW KLRLPPGHFGLLLTLSQEAKNG VTVLAGVIDLDYQDEISLLHN GGKKEYARNTGDPLGRLLVLP CPVIKINGKLQQPNPGGTTNGS DPSGMKV
8784	39152	A	8843	1	585	
8785	39153	A	8844	1	1697	MDKYFMIKTPKAMATNTTIDK WDLIKLKNFCTAKETMIRVNR QPIECKKMFAIYPSDKVILLFKM APKRNAEGLSTVSTCKKAAMC LIEKGCELVGPVGPQTHPVVTS PVSECIIGIDILSGWQNPFIGSLT GRVKAIMVAKDKLKPLELPLPG KIVNQKQHCIPGWIVEISATIKD LKDAVIGIPTLPPFNSPIWPVQK TNGSWRMTVDYHKLNQVVTPI AAAVPDVVSWEQINTSPGTCL HWWPHGEFRLVDREERTRTW FTDGSAQYAGTTQKWTPAALQ PLSRTSLKESECFIHHHGIPHSIA SDQGTHFMAKKVRQWAHAHEI HWSYHVPHYPEAAGLIEKWNG ILKPQLQCQLGDNTLQGWDKV LQKALYA\LNQHSVYGTISPIAR IHRSRNNQEVEVEVTPLIITPD PLAKFLLPVPSTLHSLDLEVLVP EGGMLPPGHTAMIPLNWKLRL PPGHFGLLLPLSQAKKGIVL AGVIDLDYQNEISLLHNNGGKE EYALNIGDPLGHLLVLP VNGKLQQPNPGRITNGEDPSG MKVCVTPPGTTTTTKKP
8786	39154	C	8845	1	720	
8787	39155	A	8846	57	261	WNF/CDPGGPMML\FISFKLKT ISSTFLSPTCLVL*RRPSRSASSL TVLCTTTRSSSPLLALV*TWP
8788	39156	B	8847	1	1158	
8789	39157	B	8848	1	2523	
8790	39158	A	8849	3	375	
8791	39159	A	8850	3	169	DFQPFTRVTVHWGKGNDQTFR GLLDTGSELTLP GDPKHHYGP PVKVG\AYGAQLL
8792	39160	A	8851	3	376	

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8793	39161	B	8852	1	592	
8794	39162	A	8853	1	319	
8795	39163	A	8854	1	1071	
8796	39164	C	8855	1	862	
8797	39165	A	8856	1	1488	MGRARRLTPVIPALWETEADGS RALTVETTVTQLQHLNTVGIIG FRGGRGQVAAVNCQKRDIQPF TRVTVHWGKRNDQTFQALVDT GLELTLIPGDPKHHCDPPVKVG AYGHQVINGVLAQIQITVGPVG PWTHPVVIFTVPKCIIDILRW QNSHTGSLTGRMKAIMVGRKAK WKPLELPLPRKTVNQKPYHTPV GTAEISATMKDLKDAGVVIPTT TLFNSPIWSVQKTGGSWRMTV DYCMLNQVVSAAVEAIVLDVVS LLEQINTS/P/WP*SGSCTAAFHH QMEVVHT*SGSSRS*RHN\CTN GLMGSFL*SVDRGREDYGLVH RRFFTIC*HHPKLDSCSTTVPF* DIPEGQL*REIFPPVSWRQGWR LCMGSATWTFTHQG*PGYGHC *VPNLPAETNTEPSIWHHSSG* SASYLVAG*LYGTSSIMERAEV CPHWNRHLF*IWVCLSCTLCF C*DYHPWTLEMPYPPSPYSTKL CCCPRHLLYG*RSAAV
8798	39166	A	8857	1	1056	MSSVLLRLIYQLTQKTASFEGG PEQKALQQIQAAVQAALPLGPY DPANPMVLEVSADRDVWSL WQVPIGESQQRSLGFWSKVLPI SADNYFPFERQLLACYWALLET DRLTVGHQVTLQPELPIMNWV LSDPSSHKVGHVHQHSIIKWK WYIRDQTRAGPEGTTTPVITQ/ WDAHEQSGLSGRDQ\KGQRFV LTGVDITYSGYWFAYPAHNASA KTSIYGFTCLIHCHGIPHSIASD QGTLFTAKEVWQWAHAHGIH WSYHIPHHPIAAGLIEWWNGLL KSQQLCQLGDNTLQGWGKDL QKAMYSLNQRLIYSTVSPISRIH GSRNQREVEVAPLTITLSDPL AKFFFLLP
8799	39167	B	8858	603	1785	

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8800	39168	A	8859	3	467	RIHVRPEITLTA/ANTARPY*IDP HDTLLSHSNFGSSDCPSSSKMR QALELVRERAPELMIDGEMHG DAALVEAIRNDRMPDSSLKGSA NILVMPNMEAARISYNLLRVSS SEGVTVGPVLMGVAKPVHVL PIASVRRIVNMVALAVVEAQTQ PL
8801	39169	A	8860	1	1878	
8802	39170	A	8861	3	684	MPNYLRFVRGLIDSSDLPLNVS REILQDSTVTRYLRNALTKRVL QLLEKLAKDDAEKYQTFWQQF GLVLKEGPAEDFANQEAIKLL RFASTHTDSSAQTVSLEDYVSR MKEGQEKIYYITADSYAAAKSS PHLELLRKKGIEVLLLSDRIDE WMMNYLTEFDGPPFQSVSKVD ESLENLADEVDESAKDAEKALT PFIDRVKALLGERVKDVRLTHA GSGLVGENV
8803	39171	A	8862	2	393	LEFGKKLGNAADYFIANKIDQ PKIAVINCEAFEVCVQRRKGFE EVLKSRVPGAQIVANQEGTVLD KAISVGEKLIISTPDLNAIMGES GGATLGAVKAVRNQNRPEKL LFSVRI*QPKLLRSWKTIRC
8804	39172	A	8863	414	805	TPSRVEGNQEYPSLVYIPSQAP WNM*TRDHKHGLNLYVQRVFI MTDAEQFMPNYLRFVGGIDSS DLPLNVSREILQDSTVTRNLRN ALTKRVLQMLEKLAKDDAEKY QTFWHQFGRGIIIFTDSQFNR
8805	39173	A	8864	3	684	MPNYLRFVRGLIDSSDLPLNVS REILQDSTVTRYLRNALTKRVL QLLEKLAKDDAEKYQTFWQQF GLVLKEGPAEDFANQEAIKLL RFASTHTDSSAQTVSLEDYVSR MKEGQEKIYYITADSYAAAKSS PHLELLRKKGIEVLLLSDRIDE WMMNYLTEFDGPPFQSVSKVD ESLENLADEVDESAKDAEKALT PFIDRVKALLGERVKDVRLTHA GSGLVGENV

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8806	39174	A	8865	1	624	AKLLRFASHTDSSAQTVSLED YVSRMKEGQEKIYYITADSYAA AKS\SPHLELLRKKGIEVLLLS RIDEWMMNYLTEFDGKPFQPG AKVDESLEKLADEVDESAKEA EKALTPFIDRVKALLGERVKDV RLTHRLTDTPAIVSTDAD*MTP RMA\KCFGAGQKVPEVKYIFE LNPDHVLVKRA\ADT\EEEEAKF CVWGNKCVLGP
8807	39175	A	8866	471	659	
8808	39176	A	8867	638	834	SSNTMMHFQIHMKESTEQQT MTARR*Q*SEVDE*REDTTLAA RGRTEA*SARYQLT*QSVSPH
8809	39177	B	8868	1	1383	
8810	39178	A	8869	4452	4896	SQHSEVVFCHMLSQPRAPGAG RYL/LQRKA/SEALEVEV/VDTW QADAVRDTRTLS\GGESFLVSL ALALALSDLVSHKTRIDSLFLD EGFGTLDSETLDTALDALDALN ASGKTIGVISHVEAMKERIPVQI KVKKINGLGYSKLESTFAVK
8811	39179	A	8870	31	185	GHRRRPFKRGRKSR*RGGSQRR VNEDARRSAWMRKKQRRLLISK ISDRTARK
8812	39180	A	8871	1744	2670	

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8813	39181	A	8872	1	1680	MGFWVENGEIQYPVSEITIAVSS LVFSSASFAADLEDNMETLNDN LKVVEKADNAAQVKDALTKM RAAALDAQKATPPKLEDKSPDS PEMKDFRHGFDILVGQIDDALK LANEDVFTRTLGADALYQFQNI RHVLRMQRIAAGEGNTLAFDT SVIQIVNDLVFHCFGWLTGIY PPCAFVIATGAFMNTPGDKQGA TSAGAVDDVDRISEITIGIPML TGYILLHVKGVRKSSADHRR RPLASLATPPHKSWTCTLLFFR LPNVVCYANRIQQLTPILETLPQ SDELPHCEETVVLENWRQVHE QCLALHSQQQTLQQQDVLAQA SLQKAQAQFDALQASVFDDQ QAFLAALMDEQTLTQLEQLKQ NLENQRRQAQTLVTQTAETLA QHQQHRPDDGLALTVTVEQIQ QELAQTHQKLRENTTSQGEIRQ QLKQDADNRQQQQLMQQIAQ MTQQVEDWGYLNSLIGSKEGD KFRKFAQGLTDNLVHLANQQ LTRLHGRYLLQRKASEALEVD VVDTWQADAVRD/TRTLSGGE/ SFLRLR*VTRRHQLWLHPLRH
8814	39182	A	8873	3	823	
8815	39183	A	8874	287	426	YSGLSAVNPVNDAYGVRFQLP SVNRIPVS***VKLAPPAHQIKRI SGKCRFIPLC*YAPPGFSSASTM RATGILSTASQPPGKLPCMEEST AERRVGLPPLAKW
8816	39184	C	8875	1	2058	
8817	39185	A	8876	1	1989	
8818	39186	B	8877	1	3132	
8819	39187	A	8878	194	789	LTKLPSLFTFTRLSSSDNDLRGG DKRGGANGARLAL*PQTRTGD VTRRQPIRVCTVIEMFELLE/PIA DGFRNYRARLDVST/TESLLIDK AQQLTLTAP/EMTALVGGMRV LGANFD/GSKNGVFTDRVGVLS N/DFVNLDMRYEWEKATD/ES KELFEGRDRETGEVK/FTASRA DLVFGSNSVLVFRILGGFFCEYS LTIRILH
8820	39188	A	8879	1120	1395	

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8821	39189	A	8880	1	629	THRPPKSGPPCAKITRTTHVTA KPLFPQTNPKQTVRRMQGELY LVDESGQEFVSALNYRRRKTR NNATAYPIRLFYLSVRPRAGSK SSRTIWILLAD/AKITPYERRQL VARIEA/LSTEIPAQVRPLYQLW RDGQALQLQLAEERQR/YTGG ADTKQDGATTTKDKQQR*TKG TRSQPSTREVQQSTQKHSTSR PPNHSAQPSNSALVTRQ
8822	39190	A	8881	3	307	
8823	39191	C	8882	161	337	
8824	39192	C	8883	34	168	
8825	39193	C	8884	172	456	
8826	39194	A	8885	174	516	VSGVRCWIHSSAFPPVFPGFLLP VAFFDRPPARLYRMHTWSHME SQEPARLPSHYAD*GQGSQKR\ DSCSSGWAGLLFISPFVLWSA EIEGSLNHITLGFRLSHGTTSD GMTF
8827	39195	A	8886	1	2964	
8828	39196	A	8887	1	2724	
8829	39197	A	8888	3708	7098	
8830	39198	A	8889	115	339	
8831	39199	A	8890	445	634	VINTFSLHTMGSTS*HQGNWGR HLTLHPRNSKHPLEQPTPGVLQ LRPPTASLRQLLSNAGCSG
8832	39200	A	8891	1663	2234	GEGLRRGLFPGAEAQGRAETA GCLRRGRGALALPGSPGLSP WVEDAGGHRVLHGRAVLRCA RAPPVPQAGLAKVEPYSGVSS LTAFPQAPILLSSGGQSRAGERT TM*G*PEMEKL*SCIGEGHQPC HR\KSRPAAPCPPPSAMFLTPR SSATLLSSSSKGASGGWEPSAA PLGGSGQPFREMVSQH
8833	39201	A	8892	202	542	
8834	39202	A	8893	564	1179	QHRLTYRTALWIHYRPDPKPL MSFRPGHQRLSVTSLLVCHGLL MVGTS LGVLVALPVRLSSPSL PPVELL*HSVCVSVCRGISCL*W RLWDQISDWSRTLQPPRPPSC CPVVASPGPGKGPQCNGDPKW KSCEAASVKGTSPATGKSRPAA PCPPPSAMFLTPRYSATLLSSS SKAASGAREPSAAPLGSGSQPF REMVSQH
8835	39203	C	8894	321	539	

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8836	39204	A	8895	630	983	NLETNGKIPFENPWSKVPIRFRGR QNLRRVCLTTGGQIPTGRWVT ATDSRGAGDYRLCLHHLR*PD GARLSAGSADCAANRRDVGGS GRGLPGRLSVQQPRRVRRGQP DVQPVSWPGC
8837	39205	A	8896	31	144	
8838	39206	A	8897	1	1775	MEISFTRVALLAAALFFVGCDQ KPQPAKTHATEVTVLEGKTMG TFWRASIPGIDAKRSAELKEKIQ TQLDADDQLLSTYKKDSALMR FNDSQSLSPWPVSEAMADIVTT SLRIGAKTDGAMDITVGPLVNL WGFGEQPPVQIPSQEQIDAMK AKTGLQHLLTVINQSHQQYLQK DLPDLVVDLSTVGEGYAADHL ARLMEQEGISRYLVSVGGALNS RGMNGEGLPWRVAIQKPTDKE NAVQAVVDINGHGISTSGVSSRG D*DGYGQGLSRVIDPQTGRSIE HNLVSVTVIAPTALEADAWDT GLMVLGPEKAKTCSPGGLRGT ESLNTLRDRITQINGIDEVRMD DSWFARLAALTGLVGRVSAMI GVLMVAAVFLVIGNSVRLSIFA RRDSINVQKLIGATDGFILRPFL YGGALLGFGALLSLILSEILVL RLSSAVAEVAQVFGTKFDINGL SFDECLLLLLSSMVTFWCRNLF TSLLELWINHADKQDDNSCLSS ASVYLKAKMMKVMLPMQLLS SGTG FYRDRENSGGRYESRRS LTRQFREEPTAPIPRECSQRIDFL LFETPSVSASSSAGFWLRFGSTA
8839	39207	A	8898	10	300	PTSIPRESSSGTWQVASTTVLF SAILAGLGSASAFCLGPGIPQAR PNNSAVNSKNSRFGIPRQAE*P EQGGVYHHTAGVLKKLIPPSAR QHPDRC
8840	39208	A	8899	1657	2061	QMPGNNPAFSALLVAFKHQFAI AGGIFIKEVTFAIKTSQLLWFGQ PIFNNETTHQTACFLSVEADDL KFAVLLIEHRLDNLGIQFLRLH RFKILI*RQINHHIALCCERLVQ LVGDDISPEFDELELRFSEVH
8841	39209	B	8900	26	1540	
8842	39210	A	8901	1	3396	
8843	39211	A	8902	1	3522	

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8844	39212	A	8903	1	105	SPQPDRHYRHRRQGPLVCIVIF YFCAKRWMAAIL* TQHRHRFL TTDDGKFAVANGSFS* RGLHH/ ATGLLRFPIC* GPLVCIVIFY FCAKRWMAAIL
8845	39213	B	8904	1	960	
8846	39214	B	8905	1	2618	
8847	39215	B	8906	1	490	
8848	39216	A	8907	2820	3332	ATEGYRQQCRQFHPAAYDESP HRNRRRKWRPTYRCHPAPDHR TACLRSAFYGNAPGCVQTGPV RRSGAASASSPAVFLSGTSPWS FARTIALVRGRS/LKIDTNSPWA YFSALLM/F/DLLSHVHEWCGR YISPPRFAQTGETLPCRHHQGS YSAYLSASRYPARRKWYFSPR
8849	39217	A	8908	3	716	EVDDTAKHRRRDSFPQ* DP/LM NIRYAPSP/HLPATVALTGAVIIT VLYALAGKRLFCSWVCPLNPIT DLANWLRRRFDLNQSATIPRHI RYVLLVVILVGSALTGTLIWEW INPVSLMGRSLVMGFGSGALLI LALFLDLLVVEHGWCGHICPV GALYGVLGSKGVITVAATDRQ KCNRCMDCFHVCPEPHVLRAP VLDEQSPVQVTSRDCMTCGRC VDVCSDEVFPITRWSSGAKS
8850	39218	A	8909	3	323	
8851	39219	B	8910	94	2205	
8852	39220	A	8911	504	694	FNQLGRDWRTYYRKSDPPR/Q WLRHSPVR* VLKMVPMAIRGL LWMLSAQPAPAICSSRQTKMV
8853	39221	B	8912	1	2031	
8854	39222	A	8913	3	190	FIATPGYTGEAGYEIALPNEKA ADFWRALVEAGVNPCLGARD TLRLDGDESYG/QEM/DET VSP* AMKLRCMPKKRPISGVRWWK RVLTHVAWARVTRCVWTGMN LMARDGETVSP
8855	39223	A	8914	1	621	MWPSVSHLTQMNIPSRFSEPSG AIEVPPDKVHELRLRLAQQGLP KGGAVGFELLDQEKFGISQFSE QVNYQRALEGELSRTIETIGPV KGARVHLAMPKPSLFVREQKS PSASVTVNLLPGRALDEGQISAI VHLVSSAVAGLPNGNVTLDQ GGHLLTQSNSTGRDLNDAQLK YASDVEGRIQRRIEAILSPIVGN G\TAQLDFAS
8856	39224	A	8915	1	2274	
8857	39225	A	8916	957	1067	

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8858	39226	A	8917	1	1242	MDGLNTDKGSSVFHTPTDRLVI CCPVDADERMTTPPRLWDHEP SKPLFFTNYPVSAFVGL/PPGK RPQGGFRAGNL*TSSKTIGRDL NDAQLKYASDVE\GRIHRRIEAF LSPIVGSGNIPAQVRAQLDFASK DQPEEQYRPNGDESHAALRSR QLNESEQSGSGYPGGVPGALSN QPAPANNAPISTPPANQNNRQQ QASTPSNSGPRSTQRNETSNYE VDRITIRHTKMNVGDVQRKLGII GQGKNEKPLKQLERVEEKPNG EGWEKKWQGKEVWKKEDGTI YLQKNKLRAPTDSTLWFAKNG RVAKIAKALVEPANNFNPGVD EDDTEKLLEVPEELTNEKLDL EQKCIHIYDDKRKQTKQTPQDV FLKRVTSQPQPQPGSGIPEEG IVIIGEDSSVQVLAPEDLPVEKL
8859	39227	A	8918	256	1510	RRFVGFRGTGVTKEAIGKRGV DQFFRQSQYRLVGVTVAGMPE LTRLFVQRFTQFRMRMAQRVH RNATREVDILFLLIPQARTFAT YRYKGCERSVNRYHPFIKVFTRN WREADLSLKRV*TLNNDTGYQ EVITYSFVDPKVQQMIHPGVEA LLLSPISVEMSAMRLSLWTGL LATVVYNQNRQNRVRIFESGL RFVPDTQAPLGIRQDLMLAGVI CGNRYEEHWNLAKETVDFYDL KGDLESVLDLTGKLNEVEFRAE ANPALHPGQSAAIYLKGERIGF VGVVHPELERKLDLNGRTLVE LEWNKLADRVVPQAREISRFP NRRDIAVVVAENVPAADILSEC KKVGVNQVVG\VNLFDMYRGK GVAEGYKSLAISLILQDTSRTL EEEEIA\ATVAKCVEALKERSQ
8860	39228	B	8919	47	156	
8861	39229	B	8920	139	993	
8862	39230	A	8921	1	284	MRRKRLIRPTVQAQVCRPDKTR KRRIRQWC/YGCRMRRKRLIRPI KYANRQAETA*GLDALHLSCSS HG*KGPT*SSGHGFRGCKPQAL EASMWC
8863	39231	A	8922	1	813	
8864	39232	A	8923	1	1176	

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8865	39233	A	8924	3	618	AGGPPLNPIEMA*KS\WDEIIVK LEKDPQLKTQFLEVYPQGFSGE NITDAIAEFEKTLITPDSFDDKW LRGDENALTAQQKKGYQLFKD NKCATCHGGIILGGRSFEPLGL KKDFNFGEITAADIGRMNVTKE ERDKLRQKVPGLRNVALTAPY FHRGDVPTLDGAVELMLRYQV GKELPQEDVDDIVAFHSLNGV YTPYMRDKQ
8866	39234	A	8925	2	212	QYPGLDLHGAKGLGDGLAGKR YRQLLVSC\RHVLYRHPAGPGT RK*RRSGIRWLHRLCGNEPRGK LLVDQ
8867	39235	A	8926	1	640	
8868	39236	A	8927	1	704	MSSFQFEQIGVIRSPYKEKFAVP RQPGLVKSANGELHLIAPYNQA DAVRGLEAFSHLWILFVHQ MEGGWRPTVRPPRLGGNARM GVFATRSTFRPNPIGMSLVELK EYVCHKDSVILKLGSLDLVDGT PVVDIKPYLPFAESLPDASASYA QSAPAAEMAVSFTAEEVEKQLL TLEKRYPQLTLFIREVLAQDPRP AYRKGEETGKTYAVWLHDFN VRWR/VSP*ACSTFQLEP
8869	39237	A	8928	3	313	AQRGGI*RGSLATAGLRSFGGL HPIRTSQFCLPVRGKPPTQAS VMVDAPHSTKLKHLRSISDCCT GSKNFKPVDLSLLGSMGVGSTE LDHLAPWLQAPFPGE
8870	39238	A	8929	13	453	
8871	39239	A	8930	380	966	LRHAVLLTEGF/SYKPHAFALG FVEAPRGEDVHWSMLGDNQKL FRWRCRAATYANWPVLRMYL RGNTVSDAPLIIGSLDPCYSCTD RVTLVDVRKRQSKTVPYKEIER YGIDRNRSPLNRSLYPREVPSTT LQPLRTPRCPGKNLALAVNVST GTNGQKPESCGPGRCRMKKGE YKRTISGGRTIIRVHIARLLRTF

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8872	39240	A	8931	1415	2085	SQVPICQRSTSCRVKRLFSWKM AYRSALVTPWRVFRRNPAVPR TSPVVFTGGDVFSRVMVRVKE T/FDSLAMLEFALDNMPDTPLL TEGFSYKPHAFALGFVEAPRGE DVHWSMLGDNQKLFRWRCRA ATYANWPVLRVMLRGNTVSD APLIIGSLDPCYSCTDRVTLMP QCIACGACACACPANALTIQTD DQQNSRTWQLYLGRCIYCPSS TNNNGPVISFN
8873	39241	A	8932	1	1127	MKKRKT VKKRYVTALVIVIA G LMTLWRIRNAPVPTYQTLIV RPGDLQHSVLAPGKLARTSKNFA Q\FIRVRYSAFSLAGEKKR**P RVHGVQNASSGRYRGTCRLG SDSRKKLVEIL\LA\PNMEQRT QGIGILDPQIARDLRFDPYAEY DNIPK\TLFTFTAADVFSRVMVR VKETFDLAMEFALDNMPDT PLLTEGFSYKPHAFALGFVEAP RGEDVHWSMLGDNQKLFRWR CRAATYANWPVLRVMLRGNT VSDAPLIIGSLDPCYSCTDRVTL VDVRKRQSKTVPYKEIERYGID RNRSPNRRCTGEGWTRAWITL PLLIKPLTPLMIASFANFNFV LIQLLTNGGPDRLGTTTPAGYT

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8874	39242	A	8933	1	2466	MLRGVNVLADAVKVTLGPKG RNVVLDKSFSGAPTITKDGVSVA REIELEDKFENMGAQMVKEVA SKANDAAGDGTATVLAQAI TEGLKAVAAGMNPMDLKRAS RSRKGYPARIRQELNQGKISR EATEKAMRECDIDWCALARDQ ATRKYGEP LPTVFSEKSRKLIA GVKRAFTHQAVNAGFCTQPAV SVIAGDFDRHGFNTRHFTFRLF DDFSFETTRFCPAQIHTLKHARP VLCFRTARPRLNIEVAVGAVIF AREHTAELKLRQFFQGAPQKA VISIPVVPQVTGVVIEVTDKKN LIKKGEVLFRLDPTRYQARVDR LMADIVTAEHKQRALGAELDE MAANTQAKATRDKFAKEYQ RYARGSQAKVNPFSERDIDVAR QNYLAQEASVKSSAAEQKQIQS QLDSLVLGEHSQIASLKAQLAE AKYNLEQTIVRAPSDGYVTQVL IRPGTYAASPLRPVMVFIRSET SLRTHCPGHADYVKNMITGAA QMDGAILVVAATDGPMPQTRE HILLGRQVGVPYIIVFLNKC VDDEELLELVEMEVELLSQY DFPGDDTPIVRGSALKALEGDA EWEAKILEL/RWLPGLYSGTR ACD*QAVPAADRRR/SSPSPVV VPLLPVV*NAVSSKLVKKLK\R WYPRDSEVYLYWR*NVPPTAG RRPCW*ERRCSAAWYQT*RNR

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8875	39243	A	8934	1475	2904	FWRAAAPIPDCWRSGAVKKQH VEVTQLDWTTPGRQYAGPIPCS RRGYCPLPRSGSVRWADL/FPP A/LD/LAGHPG/AKVANLVPKTT FIDGVDQTSFFLGTTNGQSNRKA EHYFLNGKLAAVRMDEFKYHV LIQQPYAYTQSGYQGGFTGTV MQTAGSSVFNLTYTDPQESDSIG VRHIPMGVPLQTEMHAPGLPLA SSMKRWIRRTGFIKGKEQFED VVPVLGSKVNGVQFNAELVAD SLGISQIRCRCAIFLTVVFFPVLH KQAFDLISLLLQPPGRNGGIDT AGHADDYFFCGFRHWITHDIEL QGGARQKDAADHYLAGDIESL PLATATFDLAWSNLAVQWCGN LSTALRELYRVVRPKGVVAFTT LVQGSLELHQAQAVDERPH ANRFLPPDEIEQSLNGVHYQHH IQPITLWFDDALSAMRSLKGIG ATHLHEGRDPRILTRS QLRLQ LAWPQQQGRYPLTYHLFLGVI
8876	39244	A	8935	1	920	MARADTVSVPMFMGLAAKPC WRDTEPNTGYRGPHVRNIQLT HDPRLDYRSI/LIDINDIGQTFHE RLHPDAC\LSNAILVHNKKGPP LADGIVITPSHNPPEDGGIKYNP PNGGPADTNVTKVVEDRANAL LADGLKGVKRISLDESDGIRSK NDVIDTSDDDM**QCLSRRSN\ GHPGAKVANLVPKTTFIDGVD QTSFFLGTTNGQSNRKA EHYFLN GKLAAVRMDEFKYHVLIQQPY AYTQSGYQGGFTGTVMQTAGS SVFNLYTDPQESDSIGVRHIPM GVPLQTEMHAYMEILKKYPPR
8877	39245	A	8936	471	668	
8878	39246	A	8937	1	1233	
8879	39247	C	8938	1	1548	
8880	39248	A	8939	1	1260	
8881	39249	A	8940	1	1468	
8882	39250	A	8941	261	596	RSESCCGHEPDGPETRQP*PQR LWTCAYSPGTESERYFPRSDRK SDA*M*HRLVRTGARS DAKI WRTFANCLFRKIKKTYRRSQTG FYAPGGERRFLYAASRKRNR F

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8883	39251	A	8942	2	1356	CLPGLKLVRLLYRLEERNARRT SAAVDAT*AGAWLAQCGLTV EQLAR\QVD\PDMTTRAHLHYC DHRGLPLALISEDGNTAWSAEY DEWGNQLNEENPHHVYQPYRL PGQQHDEESGLYNNRHRYYDP LQGRYITQDPMGLKGGWNLYQ YPLNPLQQIDPMGLLQTWDDA RSGALTWYGWDGDRLLTIQND RSRIQTIYQPGSFTPLIRVETATG ELAKTQRRSLADALQSGGED GGSVVFPVVLVQMLDRLESEIL ADRKRAATTWSHNNHYANKKE GIKATGYRLAQTGLGFKCEESSV FRVTRKSHSSFVWLDKAVTPHP TSNVRAGCLMRRWRVLSGLHR CEVLHPHTHPAYHAGCGVSL QRNIRHFFLNGLRFLRFRRTIC CLRLVVVQPQHFAGVLQLAFC CRYITVQLASIRRNDRFQRSPL RAGNTIAKYFFQIQHNRRGG
8884	39252	B	8943	1	1159	
8885	39253	A	8944	1	1304	MAETQQQFKKRMAASGLETRF DEVGNLYGRLNGTEYPQEVVL SGSHIDTVVNGGNLDGQFGAL AAWLAIWLKTQYGAPLRTVE VVAMAEEEGSRFPYVFWGSKN IFGLANPDDVRNICDAKGN/IC RCDEGLRIYSSERPTNS/VVRIL KPLLNCILNRA/DVLERITAWD KPDCH\TLHHHADLSGHFPEEIG PLLFAGFSSAWQNGPSAFSWQK HGSAQTSSIAVLHRTPRHAGCL AQCDFTRAFFQIMLKNYLRKK RWKKKIHFNPASGKSS/RAIPEG YVTTYGDVAKLGGIAPGRAPG GR/VQRQALLAEGAGTAEDGFT *VGEVEDAARDGP*TDAERTG* TYADAGRQDPQSAEDRQRANL HGNADR***RFASGGFHRGYHP RAAAGFCDHRKPACGNARRAG WPDRA*SKSSAYAFRYRYEHL HAGRSG

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8886	39254	A	8945	1	1695	MRSDPDTSVNEIETKLSALLGS ETTGEILFDLLCANGPEWNRV TLEMKYGRIMLDATAIIDEQDV PTHILSKLTFTLRNHPEGVVMK NFEVLQPLQNSLSGLPLWVSR ILQQINQLTHYEPVIGIMGKTGA GKSSLCNALFAGEVSPVSDVAA CTRDPLRFRLQIGEHFMTIVDLP GVGESGVRDTEYAALYREQLP RLDLILWLKADDRALATDEHF YRQVIGEAYRHKMLFVISQSDK AEPTSGGNILSTEQKQNISRKIC LLHELFQPVHPVCAVSRLHPV VALLQQFRTDDETRHYHYDS QHRLVDYTRTQYEEPLVESRYL YDPLGRRVAKRVWRRERDLTG WMSLSRKPQVTWYGDGDR TTIQNDRSRIQTIYQPGSFTPLIR VETATGELAKTQRRSLADALQ QSGGEDGGSVFPVPLVQMLD RLESEILADRVSEESRRWLASC GLTVEQMQRNMDPTEGTTAW Y/AEYDEWGNLLNEENPHQLQ QLIRLPGQQYDEESGLYNNRHR YYDPLQGRYITQDPIGLKGGW NFYQYPLNPISIDIDPLGLSMWE
8887	39255	A	8946	605	1395	SMSLLKNIRLSSASKQCAACSG WPAAAGIRGVSGGQG*ARVSSS ANTATALSSRLLPGQNSVTVP A*RMNCVLRVTPLASKNRGGKP APSGTEGKGLPEVQPGQLRAH GLPVSENLEQDFYASGPNQK WAGDITYLRTDEGWLYLAVVI DLWSRAVIGWSMSPRMTAQLA AGCPKPLWGTPSPFGPACGLAP SSAGVLPGRFVPAVWLDSEDPE EYVGSSDFLTKMQSMKKVDLK KNRAATDADGQFSPRCCMPEK YAGSHN
8888	39256	A	8947	1	1914	
8889	39257	A	8948	1	4767	
8890	39258	B	8949	1	2294	

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8891	39259	A	8950	115	3551	NPALTRIVPAQQNLYTNTLLAA RIKQRLTEQFELMLRQAQIDFA GKAHSLTEAQANTTQVSAERD RLFKNYQRYLKGSQA AVNPFS ERDIDDARQNFLAQDALAQIQS QLDSL VNGEQSQIVSLKAQLAE AKYNLEQTIVRAPSNGYVTQVL IRPGTYAASLPLRPVMVFIPDQK RQIVAQFRQNSLLRLAPGDDAE VVFNALPGKVFSGKLAAISPAV PGGAYQSTGTLQTLNTAPGSDG VIATIELDEHTDLS
8892	39260	A	8951	845	1213	DKGEIGGWAAQTHRGSHEQGA RRVPEDRDARARRKNEEPAAR PRTTNTRNGSRKGPERK/WADG RGHKAEAGRRKRRKRQ*KEEM RKIRQQESGGEKKRGLCGRPPG GGNNCMEGRERRGRKR
8893	39261	A	8952	843	1061	NRPPPVCACHRQVVLPVPVNR APA EKWQVPRVTLPGRQSTSW FAAVVYRN*YQYCALTAQRGR RSPRQLPHR
8894	39262	A	8953	1	682	MIRIPGCEDKLGADQQPAFVLY LEIDPHQVDVNVHPAKHEVRF HQSRLVHDFIYQGVLSVLQQQL ETPLPLDDEPQPAPRSIPENRVA AGRNHFAEPAAREPVAPRYTPA PASGSRPAAPWPNAQPGYQKQ QGEVYRQLLQTPAPMQKLKAP EPQEPALAANSQSFGRLTIVH SDCALLERDGNISLLSLPITGIW CSD*H**PMIPRLLIPASVRSSSM VESAK
8895	39263	A	8954	1	1887	
8896	39264	A	8955	189	552	LFRGEKGARNEVLATRYRQT VSGDFRHLHCLADQYALGGAY QF*AGLY*LHQA WEMNRGLQL LSDALGEQYAQHGNWRFLRNN DRFVFQILRSFEHDNSEDKPGP GMPPHGWRTQFWGG

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8897	39265	A	8956	263	3549	TGGPSSPSSHWKTPVVIYWDGT ALRCVFVPVLGETGAQRKRISA RKGLTTSCPQGALSEHCPTTP APLPSQRRNHW MENISPFERSVG VSASRCSES*MRPWNSRMPRLG RSQGDSSAL/MSTGVAFRGRF LKGGLPQAPAVAAATPWLCTQ GVAGETTPAVNVKYNVRVRVS EYISMHVHREVTARNVYVTQT RRPMTTFPTLAWETPHYHRRY GVSLSSAWVQVGPPRYCRQT NALSNLPNPNLKGADTQ
8898	39266	A	8957	1	1799	MMRDRLINHAIIRPACE*QLGA DQQPAFVLYLEIDPHQVDVNV HPAKHEVRFHQSRLVHDFIYQG VLSVLQQQLETPPLDDEPQPA PRSIPENRVAAGRNFHAEPAAR EPVAPRYTPAPASGSRPAAPWP NAQPGYQKQQGEVYRQLLQTP APMQKLKAPPEPQEPALAANSQ SFGRVLTIVHSDCALLERDGNIS LLSLPVAERWLRQAQLTPGEAP VCAQPLLIPLRLKVSAAEKSALE KAQSALAE LGMVNSTRFSLHE HPDAERSPGQSGEQRQQPAVD DYAIVDEYGRHYRRAVAGTLL HVSVDSGTTQTVFMYTWLSMA LIIALPAFIFARVPNDTHQNVAIS RRKTESRNEVLATRYHRQTVS GDFRHLHCLADQYALGAPIPPD GTRRPILVNGAEVGAVIASPVE RLTRNTDINFDKQQRQTSWLIV ALATLLAALATFLLARGLLAPV KRLVDGTHKLAAGDFTTRVTP TSEDELGKLAQDFNQRASTLEK NQTPITSRGHPRIFLARHPAPAP TTLSLALKIIRSPAFLPDTASEC AMAI DCYILAAS TQAYKAASSL SLSVVLATSARFKTSSTSIWVKS SSTNSCE
8899	39267	A	8958	1348	2190	
8900	39268	B	8959	1	105	
8901	39269	A	8960	1	781	
8902	39270	B	8961	1	1716	
8903	39271	A	8962	754	807	
8904	39272	A	8963	821	875	FFSLFFISLASGLSIL*W*FVFL WDRW*YPLYHFLHLFDSSLFS SLLVLLVYQFC

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8905	39273	A	8964	1	315	SGSVMPPALFFWLRIDLAMQAL FWFHMNFKVVFSNSVKKVIGS LMGTALNL*ITLGSMIAFTILILP YP*AWNVLFPVCVLFYFLEQW FVVLLEEV LHIPCKLDS
8906	39274	A	8965	42	403	GLCSVPLVYISVLVAVPKLFW* L*PCSIV*SQVA/SIPPALFFWLRI DLAMWALFWFHANFKEVFSNS VEKVIGSLMGMALNL*MTLGN MAVFTILILPTHEHGMMFHLFVS SFISLSSGL
8907	39275	B	8966	179	1225	
8908	39276	A	8967	342	407	
8909	39277	B	8968	143	3122	
8910	39278	A	8969	692	1360	MCGHISEGSILFHCSITLFWYQS HAVLVTVAL*YFLKSGGLMPP ALFFWLRIDLGLMLALLWFHMN LKVVFSNSLNK VIGSLMVMAL NL*ITLGSMIAFTILILPIHEHGM FFHSFVSSFISLSSGL*FSLKRTF TSLVSWIPGYFIFVVAIVNGSSL MIWLSVCLLLVYKNACDFCTLI LYPETLLKLLICIRRFWAETMGF SRDTIMSSANRDNL TSSFPN
8911	39279	A	8970	2116	2418	FFSLFFFISLASGLSIL*W*FVFL WDQW*YPLYHFLHLFDSSLFS SLLVLLV VY/PILLIFS KIKNKKP APGFIDFFEGFFVSLSPSVLL*S* LFLAFC*LLNVFALASLVLLIVM LGCQF*IFPAFSCGHLVL*ISLYT
8912	39280	A	8971	1	558	LYKNSVKYFHN*PVG NIMSNIPI VGALFSGPAFGIGILAAGVILAI MIIPYIAAVMRDVFEQTPVMM KESAYGIGCTTWEVIWRIVLPF TKNGVIGGIMLGLGRALGETM AVTFIIGNTYQLDSASLYMPGN SITSALANEFAEAEAGLHVAAL MELGLILFVITFIVLAASKFMIM RLAKNEGAR
8913	39281	A	8972	1879	3735	
8914	39282	A	8973	16	452	VGQLFWKGYPLAGFPDPCAQS WKVAHVLLRLRGHIKSVSANG KEVTSKFHRKENLARGLHSRPR RGQVRGGVAQHCEPR*TPPPA CRVRLPGCPVDPASPGRGRTS AGTPEPALRHPHTPRGPVAART LPAEPGPAPPSGLPP

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8915	39283	A	8974	158	531	CSLRRGPPDP/PGAYCKRRATG AASTRSLSGAVAGSPAHRCESR PLQAMGA\GGLPHPEGGRGGSG GRKRTDGPVCGCGERAPREYP DPSRSWRGPQRKPAPSQHPCLP RLSRGPGRHPEGPHQVR
8916	39284	B	8975	22	387	
8917	39285	A	8976	241	389	VASQAPGVRLQVGAHSC*G RGHVSWPPPWPWGPPCCPLCL LNLPLNI
8918	39286	A	8977	1620	1936	TLFFFESESHSVTQDRVQWYDL \NSLQPPPPGLK*FSCLSLPSSWD YRRPPPCPANFFFLVELEFHHV GQDGLELLTSGDPPALASQSAR ITGMSHCAQQNKHIL
8919	39287	A	8978	3	105	
8920	39288	A	8979	1	1821	MLKNFKKGFNGDYGVMTTPG KLRTLCEIDWPTLEVGWPSGS LDRSLVSKVWHKVTGKSGHSD QFPYIDTWLPQWVRGQAAAVL VAKGQIVKEGSRSTHRGKSTPE VLFDPTSDDPLQEMAKVIPVVP SPYQGERLPTFESTVLVPPQDK HIPRPPRVDKRGGEASGETPPL AARLRPKTGQMPLREQRYTGI DEGDHMAERRVFVCQPFTSAD LLNWKNNTPSCTEKPQALIDL QTIIQTHNPTWADCHQLLMFLF NTDERRRVLQAATKWLGEHAP ADYQNPQEYGKEESPAQFYER LCEAYHMYTPFDPDSPENQRMI NMALVSQSAEDIRRLKQKQAG FAGMNTSQLLEIANQVFVNRD AVSHTGAEHSVVTGPVAPLSK KTIDIIGAMGVSAKQAFCLPRT CTPGTKDYRLVQDLRLVNQAT VTLHPTVPNPYILLGLLPAEDS WFTCLDLKDAFFSIRLAPERQK LFAFQWEDPESGVTQTWTW LPQGFKNSTIFGEALARDLQK FPTRDLGCVLLQYVDDLLGHF TAVGCAKRTDALLRHLEDCGY KVSKKK\AQICQQQVRYLGFTI RRGVRLGSEKQVICNLPEPKT
8921	39289	B	8980	209	2272	
8922	39290	B	8981	1	228	
8923	39291	C	8982	375	472	
8924	39292	C	8983	266	408	
8925	39293	A	8984	1	1105	

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8926	39294	A	8985	108	708	LTNQKKSRTTRRIHSRILPEVQGG AAADRHCPIDRLGSLQDHRRS RLLSQWSP*KSTHD*HGFS\YQS AEDIRRLQQAFAFAGMNTSEL LQIANQAFVNRDAVSRKENHR DNERQAQRNTDLLAAAIRGVPP KRQGGKGGPGKETQPGCQSLQR NQCAYCKEIGHWKNKCPQLKR KPGDSEQEAPDKDEGALLNLA EGLLD
8927	39295	A	8986	125	444	DCLAVKRASWVQPTGYSCPL L/QGVLTYYQRRQAAFPPLRRER LASSRDKPKCAGKHTSSLVRA GDMQGTIVTGTEVLRLDMEPK FEDDQLRPVLEHKVPRREMA
8928	39296	C	8987	80	325	
8929	39297	A	8988	566	1857	
8930	39298	A	8989	1	1037	MEEGWIRLPDGRVAAPQLLGA AVVLAVQETTHRGQESLEKLL GRYFYISPLSALAKTVRQDFA DFGTTIKQDFRLLGQTSVDRLL QLSQGQAVKGNQLLPVSLTSQ CQVYKCVWNWWVLGLTDFKN EAKELRLYKQEKREKAKRWKE TEKGFNGDYGVTMTPGKWRT YFEIDWSKLEVGVWPSEGNLRS LVSKVWHKVTGKSGHSDQFPY IATWLQLVLDPPQWLRGQAAA VLVAKGQ\PRKDPTPPAEGNQ LLK/SLFDPTSEDPLQEME/PSDP SGALPLPGKDAPH*\AHSPCAS TRQTYP*ATRSRQERR*SLERNP YIGSSFKTQNWDTNAPERAVV
8931	39299	B	8990	1	2082	
8932	39300	A	8991	6	367	ENLNIKAPHAVVTLMTTTGPD WISNAILTKDFCLLCENTHISRW GCNTLNATLLLVSESPVKHNC LEVLDVYSSRPNLRDHP*TSV DWELYVDGSGFANPCKVTLKK ETSPAPVTPRS

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8933	39301	A	8992	1	2991	MLKNFKKGFNGDYGVMTMPG KLRTLCEIDWPTLEVGPWSEGS LDRSLVSKVWHKVTGKSGHSD QFPYIDTWLPQWVRGQAAAVL VAKGQIVKEGSRSTHRGKSTPE VLFDPTSDDPLQEMAKVIPVVP SPYQGERLPTFESTVLVPPQDK HIPRPPRVDKRGGEASGETPPL AARLRPKTGIQMSLREQRYTGI DEDGHMAERRVFVCQPFTSAD LLNWKNNTPSCTEKPQALIDLL QTIIQTHNPTWADCHQLL
8934	39302	A	8993	1	444	SSASTPETRAKFT*DNLCCASW QRLASANFRVLVDCILSDTFED LRLQCDVNLAFGRRC EELED ARYKLHHHLHKAVE*GGGAEH VPHRLREKLLEAEQSLRNLEDI HMSLEKDIAAMTNSLFIDRQKC MAHRTRYPTILQLAGYQ
8935	39303	A	8994	1	1576	MVQTDVLLPEPAPQTVSPCELP CKEYDVARNMGPGHRQLEVW FQNCYARYHQAFADCNQSERE LQGRESQQLAAETQALAQPTQ QDSTCRVGERLQDTHSWKSEL QHEVEVLAAETDLLLAQKQRL ERALDAMEVPFSIATDNMQCS QRHQHANLVRDYVETELLKAY PPAPSQCLKNCCSSRKPSACNK GACEVMETLTVQEEANPGTEG CRTRALAHKEEA EPIRNIQELLK RAIVQAVSQIQLNREHTEICEM DWLDKVEAYNLDETCGRHHSQ STERP/WTKFTQDNL CRAQRKR LASSANLWVLVDCILRDTSEDL GLQCDVNLAFGRRC EELEDA RHKLQHHLHKMLREITDQEHN VVALKEAIKDKKEPLHIAQTRL YLP SHRPNMQLCREAAQFRAA FPG*ESFQWRLPRTSLPAPNWE FWVPFHPSRCILLSPAPAHTPP TPPSW*VRWRSLYKSITALREK LLQAEQSLRNLDI HMSLEKDV TAMTNSVFIDRQKCMahrTCY PTILQLAGYQ
8936	39304	C	8995	99	442	

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8937	39305	A	8996	177	622	TESSASEKTTGEDGTRVFVSL RSLLSLLPSAPLRHHPPSA*LSL CSCVSD*AVALIPQSAHHFPNIS *PFPLHCFAHAKPPVWIFHSH/S LWLP*AFLAPMTSFTDQVAVD DFLSIVYLF TFTPFLAFCGEPT ALATREQVWVESAS
8938	39306	A	8997	1	329	AAARPGRGSETGDWVLLCYPG WSAVV*S*LTTA/SELLGSRG*G SLLSLPSSWDYRLSAPCLANSK KPSE*GLSMLP*LVSNSWPQVI LLGPPKALGLQAPGTMGLRP
8939	39307	A	8998	1	814	
8940	39308	A	8999	57	274	TASSSLTLVYGHRLCWLGPSHP *PSLWLP
8941	39309	A	9000	1	1236	
8942	39310	A	9001	1	1095	
8943	39311	A	9002	1	2313	
8944	39312	A	9003	166	494	FSQQLCGENHPLR TENTQAQR AGVPLGVRLSRPGFP*LSTHSC FSCPLV*PPSQGQGPLSLWTL SAIQAPAELESCRSSCDRDRSH WPRVSGGLWLSQVPRPRR
8945	39313	A	9004	3	974	MGESPAV*GYFVLAGMNSAGL SFGGGAGKYLAEWMVHGYPSE NVWELDLKRFGALQSSRTFLR HRVMEVMPLMYDLKVPRWAF KTVSQLRTSLLYDRLDAQEAR WMEKHGFERPKYFVPPDKDLA ALEQSKTFYKPDWFDIV\ESEV KCKK\EAVCVIDMSSF\TKFEITS TGD\QALEVLQYLF\NDLDVPV GHIV\HTGMLNEGGGYENDCSI ARLNKRSFFMISPTDQQVH\CW AWLKKH\MPKDSNLLLEDVTW KYTGTVRALYGDVEHESWLS CVRHAHHPDPICIAHTYLHLRS FSQADGREWRKVLDKHKIFLF ARSLC
8946	39314	A	9005	1	1872	
8947	39315	A	9006	1	2250	
8948	39316	A	9007	1	1257	
8949	39317	A	9008	1	1596	
8950	39318	A	9009	1	1584	
8951	39319	A	9010	1	1461	

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8952	39320	A	9011	110	993	TSTELSTPSQQNIHSSQHIALV PKLTT*LERIKYLGQLTRDVKD LFKQNYKPLL/NKIKEDTNKWK NIPCSWTGRINIVKMAILPKVIY RSSAIPKLPMTVFTELEKSTLK FIWNQKRAHIAKTILSQKNKTG GIMLLDFKLYYKATVTKTAWY WYQNRDIDQWNRTEPSEIIPHC NHLIFDKPDKNRKWGKDSL FN KWCRENWLAICRKLKLDPFLTP YTKINSRWIKDLNVRSKTIKTIE ENLGNTIQDIVMGKDFMAKTP KTMATEAKIDK WDLIKLRASA QQKKLPSE
8953	39321	A	9012	1	1185	
8954	39322	A	9013	1	185	
8955	39323	A	9014	2	1321	
8956	39324	A	9015	2	1757	
8957	39325	A	9016	1	1008	
8958	39326	A	9017	1	1311	
8959	39327	A	9018	1	1152	
8960	39328	A	9019	1	526	MPSLTTPIQHSVGS SGRAIRQEK EIKGIQLGREEVKLSLFADDMIV YLENPIISAQNLLKLISNFSKVS R YKINVQKSQAFLYTNNRQTESQ IMSELPFTIA\KRIKYLGIQLTRD VKDLFKENYKPLL NKIKEDTNK WKNIPCSWVGRINIVKMATLPK MTWIANWLRNSLQAQ
8961	39329	B	9020	1	1626	
8962	39330	A	9021	1	2361	
8963	39331	A	9022	1	1140	
8964	39332	A	9023	1	2112	
8965	39333	B	9024	1	1065	
8966	39334	A	9025	1	1416	

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8967	39335	A	9026	1	1690	MPMVEELYGNYGIMADTTERV GQHKDAYQVILDGVKGGTKEK RLAAQFILKFFKHFTELADSAIN AHLQTVSGRQQLVKLVAEQAD LEQTFNPSDPECVGRLLQCTQQ AVPFFSKTVHSTRSVTYFCEQV LPNLGILTAVEGLDIQLEVLKL LVEMSSFCGDMEKLETNLGKL FDKLLEYMPLPPEEAENGGNA GDEEPLKQFSYVECLLYSFHQL GQKLPDFLTAKLNAEKLKDFKI RLQYFARGLOVYIRQLHLALQ VKQCFAYMEKENGIDAKILN KILANRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTLNKLGDGTYFKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLARAIRQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMGKLPFTIA/S/KRIKYL GIQLTRDVKDLFKENYKPLLKE IKEDTNKWKNIPCSWVGRINIV KMAILPKNWKKLL
8968	39336	A	9027	1	1575	
8969	39337	A	9028	1	2682	
8970	39338	B	9029	1	2088	
8971	39339	A	9030	1	2406	
8972	39340	A	9031	1049	1500	
8973	39341	A	9032	1	4341	
8974	39342	A	9033	103	366	NHPQLKVAGLKNGCCVCMCV CVC\CVCVRVWVVCVVCVCVC VCVCVC\CVCVC\CVCICVCI*V WVCVCVCLCLSLPKWDYRHE PQRPA
8975	39343	A	9034	232	735	YLSGNGGEKGFCALPDHRLR VLHQHPPHACVETDVTDLGITS ISLADVRVCVCMCVVCVCVCV RVWVVCVVCVCVCVCVCVCVC VCVC\CVCICVCI*VWVCVCVC\ CVCVCVCIC\CVCVCVCVCVC\ CICVCI*VCVCVYVCVCVCLCT VLGIHSFLTARNAHQPIGH
8976	39344	A	9035	163	795	

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8977	39345	A	9036	34	758	RVPHRHGMKRVVRQRHGMKRV PHRHEMKRVPHRHGMKRVPHR HGRKRVPHRHGRKRVPHRHGR KRVPAQVQDEEGHCQKPGRCV CMCVCVCVCVCVRVWIWVCVC VCVCVCVCVCVCVCVCVCIC VCI*VWVCVCVCVCVCVCVCIC\ CVCVCVCVCVCVCVCVCVCIC VYVCVCVCCLCLFYLVLCFCICS/ CIISGGQRWC*RKTMCSLPFAH SHHSFPGHFFLIQSRSFQVSFHP
8978	39346	B	9037	34	156	
8979	39347	A	9038	3	419	GGENVKAINQQTGA FVEISRQL/ PPN/GDPNFKLFIIRG\SPE\QIDH AKQLIEEKIEVGWGGGLWGFG L TARIPAHLPWLLSFLLG\PLCTV G\PGPGGGPGAGPMGPFNPGPF NQGP PGAPPQ*VSSASWVLRP/E GLLSWQEE*QTPFPFP*KCRAG ALIQAHF CGYHQ QALSCL/PGR ACAFQHPSVHVQVSRLLSCPQA DAARPSSCFLSRPFGAPLSLVV WVSGASPLKNIPTPGGPAA\PPP HHCSSIPFFSPA VPGGPLLTSTH PRAGAIPTPSGS/QPAPHDPSK* WALQPGATRGSP TVSILCLLGF EAGGLLSWQEE
8980	39348	A	9039	1	445	ATADPNAAWADDYSHYYQQP PG\PVPCPAPAPAAPPAQGEPPQ PPPTGQSDYTEWAW E EYYKKI GQQPQQPGAPPQ QDYTKAWE\ EYYKKQAQVA\TGGG\PGAPP SQPDYS\AAWAEYYRQQAAYY GQTPGP\GGPQPPPTQQ\GQQQA

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8981	39349	A	9040	38	1297	TCVSALSVLASDDGTGPEKIAHI MGPPDRCEHAARIINDLLQSLR VGGPGC*RGWQGLQGSARPDR LPGFIILLLLLSRVVPQGPP\GG PGMPPGGRRPKKEEGQGN\WGSP WAGKMTFSIPTHKCGLVIGRGG ENVKAINQ\QRGA FVEICRQLPP N\GTANFKLFI\RGSP\QQIDHA KQLNE\EKMKGPLCPVGP GPGG PGP\AGPMGPFNPG\PF\NQGPPG APPHAKK\PPPHQYPPQGCNT YPQWQQHAPHDPSISAGKAAA AAADPNAAW/AAYYSHYYQQP PGPVP/GPAPAPAAPPAQQQQP Q/QPGAPPQQDYTKA WEEY/YK KQAQV/ATG/GGPGAPPGSQPD YS/AAWAEYYRQQAAYYGQ/T PGPGGPQPPPTQQGQQQQWVA PETPSPRGVPLMPAAGAVWPE VPGVPTHRQGSIRWVQR
8982	39350	A	9041	1	1777	MPVLPVTATEIRQYLRGHGIPF QDGHSLRALSPFAESSQLKGQ TGVTTSFSLFIDKTTGHFLCMTS LAEGSWEDFQASVEGRGDGAR EGFLLSKAPEFEDSEEVRIWN RAIPLWELPDQEEVQLADTMFG LTKVTDDLKRFVRYLRPARS LVFPWFSPGGSGRLGLKLEAK CQGDGVSYEETTIPRPSAYHNL FGLPLISRRDAEVVLT SRELDL ALNQTGLPTLTLPRGTTCLPPA LLPYLEQFRRIVFWLGDDLRSW EAAKLFARKLNP KRCFLVRPGD QQPRPLEALNNGGFNLSRILRTA LPAWHKSIVSFRQLREEVLGEL SNVEQAAGLRWSRFPDLNRILK GHRKGELTVFTGPTGSGKTTFIS EYALDLC SQGVNTLWGSFEISN VRLARVMLTQFAEGRLEDQLD KYDHWADRFEDLPLYFMTFHG QQ\NIRTVIGTM\NHAVVYVDIC HVIIDNLQFMMGHEQLSTDRIA AQDYIIGVFRKFATDNNCHVTL VIHPRKEDDDKELQTASIFGSA KGGEWSAPHSTSSRPSA QPKSD STVAEAAPLASDFTAYWIWFLT WGRGRASRDREFGYLAALN

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8983	39351	A	9042	3	679	SPLIVSSARMHAGRDLPLYFMT FHGQQSIRTVIDTMQHA\VYG\Y DICHVIIDNLQFMMGHEQLSTD RIAAQDYIIGVFRKFATDNNCH VTLVIHPRKEDDDKELQTASIF GLSQRQAR\EADNVLDPAGTGK LGNRGQGKRYFAGVPKEPF*W EM*GVFPLEFNKNSLTFSIPPKN KARLKKIKDDTGPVAKKPSSGK KGATTQNSEICSGQAPTPDQPD TSKRSK
8984	39352	A	9043	90	317	GTLRKRYRAFHCRTIFKALTEV CKNFSALHCEFSWGFFFCSSFF LASS*G*NCLPSQPQPCWFLQPP CPWQIL
8985	39353	A	9044	2	2136	PRLSSVLSEFITTHIYFLLSETTY NYEWNLISLYVVDPSRLAC*TV QLFFMLQLSVGLYVFNVGNDIC LHKMGSVTVLFFVTARRVNLPP VAVIKLMSSSSCISFLSLFLNLV ESTDDTEIVSYHWEEINGPFIEE KTYLCFFTFLCFVFIFVFAIT*G VQTPYLHLSAMQEGDYTFQLT GLQT*CKEILFHTVSVIPENNR PVAVAGPDKELIFPVESATCLS YSKPHAPSLMLTTSMFYRGPSA VEMENIDKAIATVTGLQVGTY HFRFYSITGVLNQSLCFHFAIFD LENNSPRARAGGRHVLVLPN NSITLDGSRSKKPRNWDPRIDSC PVIRVLSQDVIDGSDHSVALQL TNLVEGVYTFHFLML*SLCKCP SANPVSSLSPPRKSGLVELTLQ VGVGQLTEQRKDTLVRQLAVG VSW*SPSDHVAVLSHCLLHSTV IVFYVQSRPPFKVLKAAEVARN LHIS*\SRDSLFCMLPSALHTS/S AGCLKCSGHGHCDPLTKRCI* K*SWSTNSL*LCPLWFSCVSEW SIFYVTVLKS*LSVTFLKI*VELF IVPFRQKRTKIRKKTLNMY*VH LKYFTH*ILILPIAVRGMCDNDYP HD*QLEVNHGVPPQMLLCFSLG IKHRSTEHNSSLMVSESVRSFD RDCLQSLNYLLSGLLQKEKNLQ KAGLTSPAPSLWEDKCSGRTEH AQ SARLPLKEDTEKTLMQF
8986	39354	A	9045	47	157	FDKICIFKRQVTKSEVILNLTN* VL*YLEYHIRNIN
8987	39355	A	9046	1	393	
8988	39356	C	9047	274	357	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8989	39357	A	9048	727	1089	
8990	39358	A	9049	175	608	CGWEYGN*ADTMDEQYCKVC QAYKAPRSHHCTKCNTCVMK MDHHCPWINNCCGYQNHASFT LILLAPLGCIHA AFIVMTMYT QLYSFGMENNFRKQNFYLS WDWKEEGLKDPDFSIIQLGWK SFVFFHMDMGEVDGEGTF
8991	39359	B	9050	780	1166	
8992	39360	A	9051	3	681	HIRGPRYSGHHS AFGCPYSDMN LKKEATLHDRLREQTQANLES DSSHKS KSLCSLNFNGKHEKV NSQRLVQQA CKLIK GKEDID LDNLFREYSVEQAQQVLHQSV SMSTVSAHPFRDLPLGREQHCK LLPGVADIRASQVARWTVDEV AEFVQSLLGCEEHAKCFKKEQI DGKAFLLLTQT DIVKVMKIKLG PALKIYNSILMFRHSQELPEEDI ASGQEV RG
8993	39361	A	9052	30	981	TQDPWPSLPVLWSRASSDPAAG HRAEHI*TYWPWKLEGTDIWL VLYMPLVQPDNFIKKHSHLPTY CLFKEDVKFPFRTCLTYCWLN YTEEITYLHTKKVSVGQSAVRE EFAAACTWSIRIGEKLAILLSLY LCRQQALLNMRMSVPIHESGV AQRSPVMDKLAQYSVEQAQQV LHQSVSMSTVSAHPFRDLPLGR EQHCKLLPGVADIRARQVARW TVDENLHGLIQTKQTPHLDESIS KGESPALVVTELRCMTATEP LVPTKNPYQERGHIGDSFLHYT DQEPQPWDQSSVHPTAPIYSV SSGFRVTRGSDI
8994	39362	A	9053	1	864	MVSALPEVGRAQILRLIAYIRSP APPVVGVERAARRPAQAFGLV ALPSTDATVFANQPLARACIGA ARHREPDAPGQSAWVGEECLK DALRSPETPKLGSLSPPCQDTRP GRASNDFSLEMGYSSLSAARLK IHGQVFQCCGPGPLRTL\HWTQ S*TYLNILALET*GAQNQP*EW QAVD*GAPGLFSHTLGVFPR/RL PQHPKQIICFQNYEYSVEQAQQ VLHQSVSMSTVSAHPFRDLPLG REQHCKLLPGVADIRASQVAR WTVDEPYSSAPRGPELSAGANS SRGA

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8995	39363	A	9054	1	1737	MKEKPAVEVRLDKWLWAARF YKTRALAREMIEGGKVHYNGQ RSKPSKIVELNATLTLRQGNDE RTVIVKAITEQRRPASEAALLYE ETAESVEKREKMALAQMIMPQ HDQLHRYLFENFAVRGELVTV SETLQQILENHDYPQPVKNVLA ELLVATSLLTATLKFDGDITVQ LQGDGPMNLAVINEINERAQNP LLCAFRVCVNTYGSYECKCPVG YVLREDRRMCKAVFPYCQNES SDVLWQFDSTSQIFLKGTPKTT VRRGGEHNLKNPDECEDNPNIC DGGQCAGIPGRNRCLCYDGM ASEDMKTCVDIDECSLPNICVF GTCHNLPGLFRCECEIGYELDR SGGNCTEDPDHSKSRSGRSQND WGRRRKT/S*KRSAVYR*RQLY IRRQPYAERPSLR*RQRP*IPCIR SQHG NRKRMRRRRIFI/STKRTT AAARTSSVKKARSFSRALKNA MLS*RTAPSVS*S*IMITH*KK** SR*SLQTR*LMKSSARVFSK*TA NGTWSL/HSRGSKVTIDGINSND IYMLGYVSNLTGPYRPVDKTG LGLEMGLDPNDVTLTYSHFRVP EAEAAMWVSHAT

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8996	39364	A	9055	1	1743	MTTSTMTHMMTMHFPIIVCAD SRDDVDVTNDVNDHDDSAKR KSHRERPIAAKRTETK/KRRRRA RPKR/RTKARS*SAK*QTAQHT RTTAAIIMRDTQARRV*RPTKH AAEQRQNTTGKQRR*TKRVKA AKKEGE*RRRKMARRTTPQTR R*TRAKRRINRPRHGAKKRA*N /RRLKSAPKRHRVNRRDENART TTRHKRRNRVVKRAERSGAE RTPYKQRHQQTREKRTCKRRQ TK/RRTKAK*T*RDHENDGTRA YNKTPKKAARTRNNLRIHNA TKGGDNRGQTRRA*TKPRKYR PDENRYNTSSPERTPRKRRGKS E/RRDKTAQRAQ*ADRYNSRKT QQRL*KGHTHTER*RQARMHT RHAQNLDQHQSTRLCNA*ST/C HDDRSSSTMCHRYDQLYSRSH ALTMIIIVNKPLRQCIRMLSFHD RHRSLAIDGDSASTGSPAFCV NTYGSYECKCPVGYVLREDRR MCKDTCTEKAFPAGGCEVDKT HTVPQERAYIHRTRLGRARTKK RDLYRRAHNDRRRQKSAAYYE STSVRRAHKYNNGKSDTQNGS HHRQKLRYGDAGKSHYLQY NIHFMYPLFNT
8997	39365	A	9056	3	451	FFEMKSHSVAQAGVQCSGVILA HCNLHLESDDSPASAFRVAGII DARPHAWLIFVFLVETGFHHVG QAGLELLS*VIHPPWPPKVLRL QHETPCPAVSLYLNQSPENNLE EDSLAMSNRRRSKGPFIWQNP GFEILALSTFLVESDLK
8998	39366	A	9057	53	343	
8999	39367	A	9058	14	234	CLFIRIFNVICYSKTCCKNSICIGV IEIVIDGCMCGGEDGGGGGGSV TAGGAPSPIETGSHGPPQPAVYF WRF

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9000	39368	A	9059	3	865	INFSVCVLARFFLGVVVLCVSC CWFRVCACVCALAFPFCS VVVLCVPVGCR\CTLFAV/CCCL/ CVCALFCGFLLRFLFCLCV/CPC S/CSARCRC/VCLALGAVVCFPP CSVVASCGCCDWVWLCCGAV VALVGLLCCVLVCAWSFRCG/C V/CLC/VCVVVVLVVRCC/VCW CGSCVVDCAVVVLVCC\LLVVL MMSL/CGCRVYSWYGVCWVCS VVCRVIDL/CPCCLCW/CVT*RG CWSVWCM/CTCCG/CVCGLA V/M/CWCRCVVRLVCLCAV*FIC ACVCFECAVGGFVGGCFLGSCL
9001	39369	A	9060	1606	1849	QGVASLCREAGLTKISPGAPL WLPCSPGVTAECSGERTVRHN VTDRVCGVLGAVTSPGRN*RG HVTHKFCILCTDTRDC
9002	39370	A	9061	2	682	ALEAVFGKYGQIVEVHLMKDC ETNKS RGF AFITFERPADAKDA ARDMNGKSLDGKAIKVEQATK PSFESGRRGPPPPRSRGPPRVL RGGRGSGGTREPPSRGGHMD D/SGRDSYRGPPRRESLPSCR/D APPTRG/PPPSYGGSSRYDDYSS SRDGYGSRDSYSSSRSDLYSS GRDQVGRQERGLPPSMERGY PPRDSYSSSRGTTPRGGRGGS RSDRGGRSRY
9003	39371	A	9062	90	443	NVYYIQFIVLPYYLTIDPAGNSR SAPPTRGPPPSYGGSSRYDDYSS SRDGYG*SRDSYSSSRSDLYSS DRIVSTLFFVSLNWDGPKFCLF LVSASASPSIRSASSRASTWCS AA
9004	39372	B	9063	12	1373	
9005	39373	A	9064	2	206	

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9006	39374	A	9065	2	1423	IHFREMASKSWLNFLTFLCGSAI GFLLCSQLFSILLGEKVDTPQNV LHNDPHARHSDDNGQNHLEGQ MNFNADSSQHKDENTDIAEK\L EEKVRILCWVMTGPQNLEKKA KHVKATWAQRCNKVLFMSSEE NKDFPAVGLKTKEGRDQLYWK TIKAFQYVHEHYL*DADWFLK ADDDTYVILDNLRWLLSKYDP EPIYFGRRFKPYVKQGYMSGG AGYVLSKEALKRFVDAFKTDK CTHSSIEDLALGRCMEIMNVE AGDSRDTIGKGNFFHPFV\PE\H HFNLKGYLPRTFWYWNYNYP PVEGGELRFLFSTVTIRHSKALS LGVAQCSWLLKQQVISDDKTK RPDFPDRSRIMKERVQIVLYES GQAPVESSPPLPGYCSALFATCF QVTKGNFSDPTQAILYTQADK IEGWMRASGERVAEQSGQTA MDGGKKEAEWKRTKAKYRD DVCSKHHPYPTPVPPSLED
9007	39375	A	9066	1	311	
9008	39376	A	9067	1	493	ITRQHMRKAVPFQVPRKEILKL LKGGVVVGHALHNDQALK*S TLGARPGDTTYVPNFLSEPLH TRARVSLKDLALQLLHKKIQVG QHGHSVEDATTAMELYRLVE VQWEQQEARSLWTCPEDREPD SSTDMEQYMEDQYWPDDLAH GSRGGAREAQDRRN
9009	39377	A	9068	45	365	NQAAASRPHCAARTMAGEEQA ACVHEDRTQCRGDKAAPQAAH LCGPPRGSGSVSTAPRAR*CPV CSSCPGPGAPEDTPEEVDVGAA SAHRSPRLCCSHLTHRWPKH

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9010	39378	A	9069	3	1687	ICVPKSVPSFLWAGRGPHCLLP CGSSSP*SGGLARA*GVFQGRA GVARAPSHLSFHNSPCVWSLST CCRAGSQDGPCPHAAGQGPGK QTSSGTGASSSPWTSCL*KSLPK VCS*GLETTIGRGRVKPIKVD TAQ*CAASVTAPILSS*LQDGG STAKVTRCT/TAGGRAVYGTA GKAFPEAPELTCSR/ALAALGT WPLPPLQVSCGLRNPSPDLPSV VGSRASV*TKSGSSPAKVWPLA EWFKSGSA\PVTGQEAWLLWA SDSSSELSLCPRKHAAPPHSAEH RQISQGLASSCWGAGGDKVVS ASMVGSA PGQCPMSALMTGSA SGQCPGHPCWSGTNADS*GRDP HRASRLALPTASYEQ*PQPHW GSWTAHGQNGLGIFFQRVSWF V*GQTMVSRPRISGLGQPVCLS AASPQAAPLGSHDPTPAGR*GL EPGGRQPSSS*IYVWEAPPGLW VPPGPFLSH*SWRFGRTKAAPL KEPRPGGRCPGDRPSPRAEAGL PQTRKPALPAIGR/PKKACSLRR PRVILEQSSQH LAAALSSWMQP ALLETGGKAVFFTPGGL

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9011	39379	A	9070	66	1956	PLLAIPAHSTFPARKPEEPPRPD* LCPHIHCAAV*GEIRTVP/SKTV RGVATRTRPRSASSLGTITGLR VSSVRRVQLSIKPGCSRVENESS NSPCSSSQPGTSVLPCPTVCRE AGP/AGP*PPG*ALSLPAAGFTT ATEWKQSQLSSGG*THSGEDM GRATAAATEKAQEQCMLREKL GTRQKAESGSRGA\AGLQHFCS APRTAWQPRASRA/RAGVRAW PCADPM*PPSHSPSPKPFIPAA/ PGAQTLGAAGVEHVAGSARIPC CRTGLE/PHPHSPRRTLERQARI SGAGRRSSPNAATGARPRPAAG SPVSARRAPRRRPA*SSPCSGPW TAVSAPRSPGPRGGGRPPSPGR RRPCCSVFSGGASPSARVSSPS GSCSASPPAAPA\PGASGAVVA GPVVGSPREHGG*LRPPLPRLG VPGLLAARTSGAEVIHEQAAAQ GTAADTPGAPGLLLAPAAAGA V/TRPGPPGASGCRPAPRPPTP ASRSGRP\VPGGGRGRRGGRGA GGEALQGAVVGGQVGGSGAL A/ATARGSPAAGVSRWTAPRCR HRRSDASASGTPARFPAGRKG RTLWQ*SWRSAPPPGLSELL*G LPRPLPESGRSKAPLPSGSTPLPS GRTPLPSGRSPSTRRSPS
9012	39380	A	9071	95	1423	GLENKRAKGTEAHTRACP*GK STEQDITWTNTGRNEQQGPRP KGEQTQRKTERKPGRERQVQV LSSPPGRWC*DVGPLGGLPSRA KAEAAALTAQKAQGRRGSPGS LPKSSPLPSAPGKR/TPPRGHLL VPLPSPIYPALLSQHPPQGPPCG ASAPPSALLQRAPPPGTRTL\QR PPGPRVTCGTTP/MAAKAKSQS NAPRGSLKKSNSFYNIPLKQV SCLITISKHSRNEVSUYQTSRPR AAATDVPRT\PSLSVGCSWSCT RGHWPSSCCPTAPRGQGL*EHS QGPGSRSKLPWPTGPCGGLTPS CWSLAGSAGERVDLNQAAASR PHCAARTMAGKTLGGCGCVD VGAASAHRSPRLRCTISPTDGP NTERGSRKTGWTPGPPGFWPCP RPPTSNTTTPGLMDSARPGKA PAPFTDFRTPSGLLLPGWAVRA RREEDGCG

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9013	39381	A	9072	42	380	LGAPCTPPRSAPRTGRPEYA*ARG*PVGDLCRGPEAVVSTQVLLPRGLQ*NFAVLLLQMSCATPPPNCAKGCV*VPLEQSPFFHQAVACREWKRKGGMVCGGNASPQRTEA
9014	39382	B	9073	116	341	
9015	39383	B	9074	52	190	
9016	39384	B	9075	70	310	
9017	39385	A	9076	1349	2456	HCSVPGAIEWPRKPPAQICPQLTSRPHLSSPRSLSPGCGHSPGPG*SPQPPVMSLHEGPPRGPV/PSPVANPQPKPWLLRSVDLPVPWHLPTVDRTTSL/APSLQSDV/PAPSGAL*PSGRACSGV/PPID*APEAALSAAAPRPSLGSQNASGLPAASLPPQDSSQPHKTVSPARSVPPLGAQARAAPPRLWCPHALVSG*EASPEAVSVAAGPPVPGTPSTSGTASHSRRC*SPR*TPAPRRDHGRSAAFEVLAAAASAPCASQGGPRPTGAGRTPSLGLPFSRGPPAASARPFCHPSL*FSW*SSPSGLSLSDTPHSPRRPLGPVCGLRAPCPPQIPACRVPAHSQRWPGSSSRSCRCQCC
9018	39386	A	9077	462	739	ACEPMVLFCLLALLQDLFLGSYPRVLAADFQVFFLGTSRDM*NTG\LEYFMLNSWLWLLNRL*SWGELCHFIPLHSPVKRGLNFYQEFFI
9019	39387	A	9078	1	678	GTRVNMILMKMGFSGIVVHQESVCATYGSGLSSTCIVDVGDKTSVCCVEDGVSHRNLCLAYGGSDVSRCFYWLMQRAFGPYRECLTNKMDWLLQHL/KRNFLSFRSRTSLGFRMTSFRFRHPDSPALLYQFRLGDEKLQAPMALFYPATFWICWTGK*RPLHTDLRAILKILTMNITCWPHKAHENSQKLLLTESLHPNLLDLKGIFVASPLIFQKDSIPR

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9020	39388	A	9079	227	1980	GERLRYGVTENGKEKGGEKEK EQRGVKRPIVPALVPESLQEQIQ SNFIIVHPGSTTLRIGRATDTLP ASIPHVIARRHKQQGQPLYKDR WLLREGLNKPESNEQRLNGLIM VDQAIWSNKMSNGTRRNPVSP EQARSYNKQMRPAILDHCSGN KWTNTSHHPEYLVGEEALYVN PLDCYNIHWPIRRGQLNIHPGP GGSLTAVLADIEVIWSHAQKY LEIPLKDLKYRWILVIPDIYNK QHVKELVNMILMKMGFSGIVV HQESVCATYGSGLSSTCIVDVG DQKTSVCCVEDGVSHRNTIFS WRSGHLWVQDHEFQIRHPDSP ALLYQFRLEDEKLQAPMALFYP ATFGIVGQKMTTLQHRRLRAILR ILTMNITCWPHRANKNSLQKLL LTESLHPNLFEFERGFLLWASPLI FQKDSIPRR*IWGLHREMA*WP ATIPRRPLTALMSRKTALSLFEG KALGLG*SPSSIAIDCCSSDDTK KKMYSSILVVGGFDFVFIKASR IFCSTEFSTKCPPSLQADYLKM WM*SQGLKMDMPRLIAWKGG AVLACLDTTQELWIYQREWQR FGVRMLRERAAFW
9021	39389	A	9080	1	756	MRRIVALVETGEQPFGAATVGS RFGCLEDLGTDQRRERHHEMA AAHTYFIGDGDTLTEDEDEDT WGMAKGHHAINIEGFKLARVE DEMQFQEREPEKVKIRGRTRGY TFIMLAALAAAEEDMQVGEE L/C*KVSLKASQLGQMALMLQS VTVQIGMVYGLPACGAQVNLQ DDKGSMVL/MCASKHGHMEIHK LLLAQLGCNVHLQDNDGSTML SIALEVGHKGITVLLYAHISFAK AQSPGTPRLGMKPQSF
9022	39390	B	9081	5	5440	

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9023	39391	A	9082	1	4294	WAVFDGNYYYYLPWAHTKPV VTLSYWEDISHRLDAVNALLA MAERLQTNIEALKSGIQGKIPA NQLAELWLKLIDEVIEDTRYTL PLTEGKANVTVLDTQIRKLRSR SLSQIHEAAVRMRSEATDVKST LAEIEDWLDKLMQLTEEPQNS MPDIIIWMIRGEKRLAYARIPAH QVLYSTGENASGKYCGKTQTI FLKYPQEKNNGPVPVELRVNI WLGLSAVEKKFNSFAEGTFTVF AEMYENQALMFGKWG
9024	39392	B	9083	1	339	
9025	39393	A	9084	2	1767	KLYRGKSDENEDPSVVGFEFGKS FRIYPLPDDPSVPAPPRQFRELP DSVPQECTVRIYIVRGLELQPQ DNNGLCDPYIKITLGKKVIEDR DHYIPNTLNPVFGRMVELSCYL PQEKDLKISVYDYDTFTRDEKV GETHIDLENRFLSRFGSHCGIPEE YCVSGVNTWRDSLRTQQLLQ NVARFKGFPQPILSEDGSRIRYG GRDYSLDEFANKILHQHLGAP EERLALHILRTQGLVPEHVET RTLHSTFQPNISQGKT/LQMWG GMFFPKSLGPPGPPF/NITPRKA KKYYLRVHWNKDVILDEKSIT GEEMSDIYVKGWIPGNEENKQ KTDVHYRSLDGEGNFWRFVF PFDYLPAEQLCIVAKKEHFWSI DQTEFRIPPR/LIIQIW/DNDKFS LDDYLGFPRTLTCRHTIHFLQK SPGGNCRVWT*FPGPSKAMNPL KAKTASLFEQKSMKGWWPCY AEKDGARVMAGKVEMTLEILN EKEADERPAGKGRDEPNMNP LDLPNRPETSFLWFTNPCKTM K\FIVWRRFKWVIGLLFLILL LFVGRAPLTLLPNYFVQWKIVK PNVLTGKGKGFISRVIQQ
9026	39394	A	9085	2	407	

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9027	39395	A	9086	15	759	SARPSHDYSHYYGTIEYLCYKI LGDIIENSRIVLQINNACLAADD F*TKYEREQT/LA/RTDLEMQTE GLKEELAYLKKNHEGEINALRG QVGGQISVEVDSALGADATNIL SDMQSQYENRKDAERWFTSCT EELNWEVVGHMEQLQMNRSQ VTDLR CNLQGLEIELQWQLSM KAALEARFGPQLAQIQA LISSIE AQLGDVRADSERQNQEYQLLM DIKLWLEQELATYLSLLEGQEE HYNLSLSTSKIL
9028	39396	A	9087	3	2026	AGPWDRMGAMGSLVGGDLGL VWGCAGEGFAGIPFSPCALTQC EGNQGTRAKWVQTSTRILKGQ VKQARGAQVTPYSPLWHGKLG RAAPTFNAPGRWLLPLLPPPL L*ITTCLLGKRTLQEALSLKLQE LRKVCLQEAVRAWP*GYQAGR LGGGEELGPLGRPPTARAYPPP HPNQAHHSLCPAEV/MQMGVE SKRVGRGDRYRGVARR\MALA PDLSTEQR RRRRRQVQADALRRL HELEEQLRDVRARLGLPVLPLP QPLPLSTG SVITTQGVCLGMRL AQLSQGEHPLVRVGEWTLANG RGRAGMGDSYPPNLPPTPSL* PIPFHPVSGGSPERRTPWKPPPS DLYGDLKSR RNSVASPTR*E*A PPPLRRSWEWDSKPG LAEGPAS DRASLFVARTRRSNSSEALLVD RAAGGGAGSPPAPLAPSASGPP VCKSSEVLYERPQPTAFSSRTA GPPDP PRAARPSSAAPASRGAP RLPPVCGDFLLDYSLDRGLPRS GGGTGWGELPPAAEVPGPLSR RDGLLTMLPGPPPVYAADSNSP LLRTKDPHTRATRTKPCGLPPE AAEGPEVHPNPLLWMPPT RIP SAGERSGHKNLALEGLRDWYI RNSGLAAGPQRRPVLP SVGPPH PPFLHARCYEVGQALYGAPSQ APLPHSR SFTAPPVSGRYGGCF
9029	39397	A	9088	1	136	
9030	39398	A	9089	14	310	TFLFIYFFFTETESH SVPRLECS GVISAHCNLHLLGSNNSATSAS *VAVITGACHHAWLIFVFLVEA GFCHVG/RRLVSNS*PQVIRLPW PPKVLGLQA
9031	39399	A	9090	1	436	
9032	39400	C	9091	75	410	

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9033	39401	A	9092	1	6691	MVNTYREVKEGPVILEDLVIEV FRTLYSQCKAELDLQTEPPFSK DHAQLSSKLRENKKTAEIKTA NLLFNSFEPYYMWDYVARWFE ECCRRTLHVRLQIGPGDSNDSS ELQLTNFCLLVDFLLDIVSLETY IEIQTEHLPQLLLRMISALTSHL QTLHLSLTDSLRLCSKILSKVQ PPLLSASTGGVLQFPSGQNNVS KEWEDKKVSSVSHENPTEVFE DGENPPSSRSSESGFTEFIQYQA DRTDDIDRELS
9034	39402	A	9093	293	687	PTAKVYIFSIFLTYHIVCCINTSS LFGFLQKNPEEDNSGRTLGLWE PGHLLALTICTVRSMEQLLPFFN VLSQVFNSKVTSRCGGHSGSPI LYSNAFPNKDMKLENHKPCSS KARQKIEEMVEKDFLEGMIKT
9035	39403	A	9094	3	4173	IPMVVSDFDLPDQQIEILQSSDS GCSQSSAGDNLSEVDPETVNA QEDSQMPKESPDDDVQQVVF DLICKVVSGLEVESASVTSQLEI EAMPPKCSIDPDEETIKIEDDSI QQSQNALLSNESSQFLSVSAEG GHECVANGISRNSSSPCISGTH TLHDSSVASIETKSRQRSHSIQ FSFKEKLEKVKSEKETIVKESGK QPGAKPKVKLARKKDDDKKKS SNEKLKQTSVFFSDGLDLENW YSCGEGDIS
9036	39404	A	9095	5	1055	FDLERNLTYMVTREKIKRS VCKVQEIQIFNLTKLLEQERS GVPSSCSSSLENMLLFNSPSVG PDAPKIEDLKW/PFCISSENKVV LPWVSFG*KRPIKSRILLQN*PW K*RQNPAEAARPVW*KGGDGG PRELFGFRKDLCRSTSHISTTEK WCGDARPWEKKRQSFSL*SH*R RLKGRIF*TESQAS/PGPQMCP GIWTTQELPPLEWGSQHLGTR KEIVPKCNGSLIKVNYNQTAVK VPTTPASPVKNWGGFRIPKKGE RQQ/PGRGPRWGLPPALRLPIFG LRPSS\TKERAKSKLSDNEND GYVPDVEMSDSESEASEKKCIH TSSTISRRTDIIRRSILAS

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9037	39405	A	9096	3	1136	FDIPFPKIGKLIKSNVPELRGHFP LSITLVLRMLLASKGDDPEDA KAKVLSVLKHSLLSFKQPRVM DMLKLYFLFSLQFLGGKRAI*IQ EG*SYGVCWDLVFTFGIYPWNL SNLVFVSFLVNGLFHDL CQPTR KGSKHFSQDVMEKLVVL AHL FGRRYFPKFQDAHFEFYQSKV FLDDLPEDFS DALDEYNMKIME DFTTFLRIVSKLADMNQEYQLP LSKIKFTGKECEDSQLVSHLMS CKEGRVAISPFVCLSGNFDDDL LRLETPNHVTLGTIGVNRSQAP VLLSQKFDNRGRKMSLNAYAL DFYKHGSLIGLVQDNRMNEGD AYYLLKDFALTIKSISVSL/HVT YCENEDDNVVLAFEQLSTTFW
9038	39406	A	9097	2	522	
9039	39407	A	9098	3	1080	FLLPFSHQSKKENS DQLMTLFT SFNSLHSAMESFFQATGNSTNL ADDGKRRTVVTPVILTKIDGVN VDTHHIPVNVTLRRIAHGADAV AARWDFDLLNGQGWKSDGC HILYSDENITTIQCYLSNYAVL MDLTGSELYTQAASLLHPVVY TTAILVLCCLAVIVSYIYHSLI RISLKSWHMLVNLCFHIFLTCV VFVGGITQTRNASICQAVGIILH YSTLATVLWVGVTARNIYKQG H*KS*KMPRIPEP/RTFNQDQW LRFY PDLVGGYPPSLVLR A*LA AANIKELRQSAKPHPY/WLGW HGNPPWEAFYGPASFSTFVNC MYFLSIFIQLKRHPERKYELKEP TGQQQRLACQ
9040	39408	A	9099	1	307	
9041	39409	A	9100	2	286	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9042	39410	A	9101	35	1211	EKDLLWEEKFPDRTTVTELPQT SHVSFSEPDIPSSKSTELPVDWSI KTRLLFTSSQPFTWADHLKAQE EAQGLVQHCRATEVTLPKSIQD PKLSSELRCTFQQSLIYWLHPAL SWLPLFPRIGADRKMAGKTSP WSNDATLQHVLMSDWA VSFST LYNLLK\KNFSPYFYVCTYQFT VLFRAAGLAGSDLITALISPTTR GLREAMRNEGIEFSLPLIKESGH KKETASGTS LGYGEYVIKITL/S SSTDLTWTHEIDLHRNSL*NRDS NCSNF/LREQAISDEDEEESFSW LEEMGVQDKIKKPDILSIKLRKE KHEVQMDHRPESVVLVKGINT FTLLNFLINSKSLVATSGPQAGL PPTLLSPVAFRGATMQMLKARS VNVKTQALSGIQRPI
9043	39411	C	9102	48	464	
9044	39412	A	9103	1	140	MNRLKKEWMLEHIVENNSGM ESQDIKGHFHAADKDLLEMGY LQKRGLIGLTVLHGWGGLTIM AEG*KRSGCLSTLWKITPAWNL KTLKAIFMLLIKTYLKWAIYKR
9045	39413	B	9104	1289	2767	
9046	39414	A	9105	3	1278	INNTNTFRVLPHPSFVYTAKFHP AVRELVTGCDYDSMIRIWKVE MREDSAILVRQFDVHKSFINSL CFDTEGHHMYS GDCTGVIVVW NTYVKINDLEHSVHHWTINKEI KETEFKGIPISYLEIHPNGKRLLI HTKDSTLRIMDLRILVARKFVG AANYPGEDS*YFD/VH/GGTFLF AGSEDGIVYVWNPETGEQVAM YSDLFPKSPIRDISYHPFENMVA FCAFGQNEPILLYIYDFHVAQQ EAEMFKRYNGTFPLPGIHQSQD ALCTCPKLPHQGSFQIDFVHT ESSSTKMQLVNQRLETVTEVIR SCAAKVNKNLSFTWPPAVSSQ QSKLKQSNMLTAQEILHQFGFT QTGIISIERKPCNHQVDTAPT VV ALYDYTANRSELT IHRGDIIRV FFKDNE DWY GQHRERGQEG

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9047	39415	A	9106	1	1249	MAVLIFLGCLLGGAIGLPIAWA LLLCGAALMFWLD MF DVQIMA QTLVNGADSFSLAIPFFVLAGE IMNAGGLSKRIVDLP MKLVGH KPGGLGYVGVLAA MIMASLSG SAVADTA A VAALLVPM MRSA NYPVNRAAGLIASGGHAPIPPSI PFIIFGVSSGLSISKLFMAGIAPG MMM GATLTLGKRARFTEDDTR ERDAISVINHQ RNAVLIRQ RVK LQQLFVIRVLAMRIFVYGSLRH KQGN SHWMTNAQLLGDFSIDN YQLYSLGHYPGAVPGNGTVHG EVYRIDNATLAELDALRTRGGE YARQLIQTPYGS AWMYVYQRP VDGLK LIESGDWRVLRWLRVH SIDVPDPIFGLTVTGDR TDRAG KTSPAQAGCKLFLTNPLGIGVL TTAEKKSLLKPEHQGLATEVM CRMNIAGASFANIEGVKAMTD VTGFGLLGHLSEMCQGAGVQA RVDYEAIPKLP GVEEYIKLGAV PGGTERNFASYGHLWLR*LAL AP/LEVVEANGSL*CSGERGCL YGQTTTIQLNFRPAFCPEHA IAG QKVAILRLNMQIDIKRVSSRTH GNHFTNFKFTVQH YRSCLT

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9048	39416	A	9107	162	2106	KMSKLIKIAVSDSCPDCTTQRE CIYINESRNIDVAAIVLSLNDVT CGKLDEIDATGYGIPVFIATENQ ERVPAEYLPRI SGVFENCESRRE FYGRQLETAASHYETQLRPPFF RALVDYVNQGN SADFDCPGHQG GEFFRRHPAGNQFVEYFGAVPC RLVIPALKKQRKLS DLETAIVV VDRFSGEVRAMVGGSEPFAG YNRAMQARRSIGSLAKPATYLT ALSQPKIYRLNTWIADAPIALR QPNGQ\ESVRVMLVDALTRSM NVPTVNLGMALGLPAVTETWI KLGVP\KDQLHPVPAMLLGALN LTPIEVAQAFQTIASGGNRA\PL SALR*TIAEHGKELYQSFPQAER AVPAQAAYLTLWTM Q\QVVQR GTGRKLGAKYPNLHLAGKTGT TNNNVDTW FAGIDGSTVTITW VGRDNNQPTKLYGASGAMSIY QRYLANQTPTPLNLVPPEDIAD MGVDYDGNFVCSGGMRLPV WTS DPQSLCQQSEMQQQPSGN PFDQSSQPQQPQQQPAQQEQ KDSDGVAGWITDMFGSNEHLS GYELDSYPLSSARRRRARFTEDD TRERDAISVINHQRNAVLIRQR VKLQQLFVSNHIACWIRRP GDA NHPGFFANMQMLKIDVVFKLA FRQQFNIRTRRDKQIFFQSGVT
9049	39417	A	9108	1	66	
9050	39418	C	9109	79	150	
9051	39419	A	9110	2	475	GRGRWGAPRLRGAL*DP*GHF LGQQPRPQLHSPAPDR\ PAPTPT DAEGL/PPAAAAAAGATARVP GSRGG*QAAEELHEAGEAQA CRGGTEDEEHG**HLCHGRAS* CPGVSGSTGSPHPSPSMAPDDT SGLLEFVG VPLQTLFAWVSPAE AAEQQRL
9052	39420	A	9111	171	462	PTSMGHLYSFPGN*SHAHYHPI KT*SPLPHSTPISNPSA\PLKGLK PVITRLLQHGLLPINSPYHSPIL PVLKPDKAYKLVQNLRLINQIV LPIHSM
9053	39421	A	9112	1	573	
9054	39422	C	9113	100	297	
9055	39423	A	9114	1	1401	

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9056	39424	A	9115	24	482	VGSGDLPWEGNPLSSCSLLHEK DPPTTSGPQT/GP/GPRNISPILNR AAPRQAQLGPNSSSASAPPPYN PFITSPHTWSALQFRFVTSPPPP AQLTLKKVAGAKGTVKEHFC HDLPASSMQSNYPVHDSGHLT TGPSLFKPTLNIEYSTGHAP
9057	39425	A	9116	1	489	
9058	39426	A	9117	1	642	
9059	39427	A	9118	237	748	ETNPLSSCSLLRDKDPPTTSSPQ THQPKKHPPISNPAAPHQAELG PNPSSASAPPPYNLFITSPHTW SGLPFRSVTSPPPPAQQFTLKKV AGAKGTVKTTIDIELQVTLTVE ARLRPGEINSHVAHTKPVWWS LHTDTCDIWCRPGTGGLLQET SPLSSPSLCEEIHL
9060	39428	A	9119	63	255	WVSGSVQVKVERGWDEGCKGI VKKACLTYTNRIMHCVGRY*A *ESIWWHHGVNRQNNLVDKA
9061	39429	A	9120	24	389	SDVKANLSTGGPVGCGGDTL/P VAEKPSDAVEAPGV*APSAGG AGPA\PSPGLEPSGAPPPP/ALPP RAVLDSGLAPGRPLPLASSNP/P PAGRRLLLCTSPGRRGGAAGSG PRCPESKSIPLRCL
9062	39430	A	9121	704	867	CVKECLDVRHLRPFAYFTTRII* ILQDGKIQSAIF/CVIWNYCRVCI GVKRHSRRK
9063	39431	A	9122	1	7068	
9064	39432	A	9123	2	165	LLKRELNFDFYKISTTKERHLQ QS*PKDS\VPSLLASQTPNAPFL APQRRCLA
9065	39433	A	9124	1	148	IRHSVNLLRAG/RIFVFEPPPGLK ANTQRTFESGMKHVRIIYMMEF HVFM

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9066	39434	A	9125	1	2340	QFGIWL DSSSPEQTVPYLWSEE TPATPIGQAIHRLLLIQA FRPDR LLAMA HMFVSTNLGES\FMSIM EQPLDLTHIVGTEVKPNTPVLM CSVPGYDASGHVEDLAAEQNT QITSIAIGSAEGFNQADKAIN TA VKSGRWV MLKNVHLAPGWLM QLEKKLHSLQPHACFRLFLTME INPK\VPV\NLLRAGRIFVFEP\PP G\VKANMLRTFSSIPVSRICKSP NERARLYFLLAWFHAIQERLR YAPLGWSKKYEFGESDLRSAC DTVDTWLDDTAKASGRQNISP DKIPWSALKTLMAQSIYGG RV DNEFDQRLNNTFLERLFTTRSF DSEFKLACKVDGHKDIQMPDGI RREEFVQWVELLPDTQTPSWL GLPNNAERVLLTTQGVDMISK MLKMQL EDEDDLAYAETEK KTRTDSTSDGRPAWMRTLHTT ASNWLHLIPQTL SHLKRTVENI KDPLFRFFEREVKMGAKLLQD VRQDLADV VQVCEGKKKQTN YLRTLINELVKGILPRSWSHYT VPAG\MTVIQWGVPI SARRIKQ LQNISLAAASGGAKELKNIHVC LGGLFVPEAYITATRQYVAQAN SWSLEELCLEVNVTTSGATLD ACSGVTGLKLQGATC NNNKL SLSNAISTALSLTQLRWVKQTN TEKKASVVTLPVYLNFTRADLI FTVDFEIATKEDPRSFYERGGG
9067	39435	A	9126	3	6375	HKVAAPDVVVPTLDTVRHEAL LYTWLAEHKPLVLCGPPGSGK TMTLFSALRALPDMEVGLNFS SATTPELLLKTFDHYCEYRRTP NGVVLAPVQLGKWLVLFCDEI NLPDMDKYGTQRVISFIRQMVE HGGFYRTSDQTWVKLERIQFV GACNPPTDPGRKPLSHRFLRHV PVVYVDYPGPASLTQIYGTFNR AMRLIPSLRTYAEPLTAAMVE FYTMSQERFTQDTQPHYIYSPR EMTRWVRGIFEALRPLE

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9068	39436	A	9127	3	617	SWFQPPSGPPWPGA\PPPPPLAR VNPGV\PSLTTSMDVEP*AQV ELPSHPRVPSAPGPAP*VLEPP RSLTTSVVGPQGPSWAGGGMA VRQALEEAACRDPCIAISSWAG GDRPLWWLDGLLLRRVYPDSC PPCPSRIPAIFGASLQGSINPILQ MRKLFPHMDLL*GQDPFSCR RPESWNRDVGWLALGVFCLVP FSLVGS LN
9069	39437	A	9128	1	702	
9070	39438	A	9129	1	1317	
9071	39439	A	9130	1	2641	MGLKARRAAGAAGGGGDGGG GGGGAANPAGGDAAAAGDEE RKVGLAPGDVEQVTLALGAGA DKDGTLLLEGGGRDEGQRRTP QGIGLLAKTPLSRPVKRNNAKY RRIQTLYDALERPRGWALLYH ALVFLIVLG\CLILAVL\TTFKEY ETVSGDWLLLLLETFAIFIGAEF ALRIWAAGCCCRYKGWRGRLK FARKPLCMLDIFVLIASVPVVA VGNQGNVLATSLRSLRFLQILR MLRDGPGEGETWKLLG\SAICA HSKELITAWYIGFTLILSSFLV YLVEKDVPEVDAQGEEMKEEF ETYADALWWGLITLATIGYGD KTPKTWEGRLIAATFSLIGVSFF ALPAGILGSLALKVQEQHRQK HFEKRRKPAAELIQAAWRYYA TNPNRIDL VATWRFYESVVSFP FFRKEQLEAASSQKLGLLDRVR LSNPRGSNTKGKLF TPLNVD AI EESPSKEPKPVGLNNKERFRTA FRMKAYAFWQSSSEDAGTGDP MAEDRGYGNDFPIEDMIPTLKA AIRAVRILQFRLYKKKFKETLRP YDVKD VIEQYSAGHLDMLSRIK YLQTRIDMIFTPGPPSTPKHKE VFRKGQHFTFPSQOSSRGLNHM *ARPST\SEI\EDQRH*WGKFVKS LKGQV\QGLGRKLDLFLVDMHM QHMERLQVQVTEYYPTKGTSS PAEAEKKEDNRYSCLKTICNY
9072	39440	A	9131	353	477	QNEILPQISKSNNEI*SRSPH*ITR NLNNSNKM AHKMKFAN
9073	39441	C	9132	170	310	

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9074	39442	A	9133	1	859	MSCGRPPPDVDGMITLKVDNL TYRTSPDSLRRVFEKYGRVGDV YIPREPHTKAPRGFAFVRFHDR RDAQDAEAAAMDGA*EGRAL RIQVARYGRRDLPRSRQG/PTP RGRSRGGGYGRRSRSYGRRSRS PRRR\HRNRFFCPCSRSRRRGR YRGSRYSRSPYSRSPYSRYSR SPYSRYSRYRESRYGGSHYSSG YSNSRYSRYHSSRSHSKPGSSTS SRSASTSKSSARRSKSFSVS\RS RSR\SRSSMTRSPPGVSKRKSK SR\SRSKRPPKSPEEEGQMSS
9075	39443	A	9134	161	332	SCLNQLN/YLEMWKLFRKAQE DHTLGRDISYVAEVRPGEAGGR AHTGDSLLTMNPSFL
9076	39444	A	9135	1123	1489	LQTLQGHNSQNSMVLVPKQR YRSMEQNRLRNNVTYLQLSD L*QA*EKQAMGKGFPIS*MVLG KLASHM*KAESGSLPYTLYKN* FKMD*RLKH*T*NHKNPRRKPR HYHSGHRHGQGLHV
9077	39445	A	9136	277	367	
9078	39446	B	9137	1	1136	
9079	39447	A	9138	3	1168	
9080	39448	A	9139	1	1460	ERGLETNSCSEELSSPGRGGG GGGRLLLQPPGPELPPVPFPLQD LVPLGRLSRGEQQQQQQQPPP PPPPGPLRPLAGPSRKGSFKIRL SRLFRTKSCNGGSGGCGDTGK RPSGELAASAASLTDMGGSAG RELDAGRKPKLTRTQSAFSPVS FSPLFTGETVSLVDVDISQRGLT SPHPPTPPPPRRSLSLDDISGT LPTSVLVAPMGSSLQSFPLPPP PPHAPDAFPRIAPIRAAESLHSQ PPQHLQCPLYRPDSSSFAASLRE LEKCGWYWGPMNWEDAEMK LKKGKPDGSFLVRDSSDPRIYLSL SFRSQGITHHTRMEHYRGTFSL WCHPKFEDRCQSVVEFIKRAIM HSKNGKFLYFLRSRVPELPPNS CQLIYPMRFSIYESFQHLAKF RIRQLVRIDHIPDLPLPKPLISYI RKFYYPDPQEEVYLSLKEA/QS VSKQKQEVPEST*RGAPCWSP RAFGCQAPALKNQIKLP

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9081	39449	A	9140	2	418	KSPSKYLCYTFIISTAALVLLIM LPHESMPVYLGMACTLGFGAIV FTQRAV\FFAPIGEAKIAENKTG AAMALGSFIGYAPAMFCFSLYG YILDNLNPGIIGYKIVFGIMACFA FSGAVVSVMLVKRISQRKKEM LAAEA
9082	39450	A	9141	26	180	KPAHQCCQVFFCPVVS AHQGEV LPYKSGVTSIESFVTICKVIRR* LLSFLA
9083	39451	A	9142	299	921	FGTAALVL*IVLPPEISPSH*GM ACTLGLGAIVLTQRAV/FFAPIG EAKIAENKTGAAMALGSFIGYA PAMFCFSLYGYILDNLNPGIIGYK IVFGIMACFAFSGAVVSVMLVK RISQRRIRRLRRIRQFHRRNTSS RYGSGFARGGRKATRGISSQEL GQGLSGEEQDGASGGV TAGDI ATGDYFLLTPHLQICTGAKGGL GCVVEGR
9084	39452	A	9143	1	752	MSELPFAIASKRKEYVGIQLPR YTIQKLEENLNVVLFDRSGHRT KFTNVGRMLLERGRVLLQAAD KLTTDAEALARGWETHLTIVTE ALVPTPAFFPLIDKLA AKANTQ LA IIT*VLGAWERLEQGRADI VIAPDMHFRSSSEINSRKL YTL MNVYVAAPDHPH HQEPEPLSEV TRVKYRGIAVADTARERPVLTV QLLDKQPRLTVSTIEDKRQALL AGLGVATMPYPMVEKDIAEGR LRVVSPESTS
9085	39453	A	9144	389	760	SWRIDVHPV*YTTRLFPFVLPY MQKGT SIRTSSRQLLDKQPRLT V/STIEDKRQALLAGLGVA/TMP YPMVEKDIAEGR LR/VVSPESTS EIDIIMAWRVTKRTPKN*WTM MPENIGEYTKTTHILG

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9086	39454	A	9145	1	941	MTAMERSRILRRAVDILRERND ELAKLETLDTGKAYSETSTVDI VTGADVLEYAGLIPALEGSQI PLRETSFVYTRREPLGVVAGIG AWNYPQIALWKSAPALAAGN AMIFKPSEVTPLTALKLAEIYSE AGLPDGVFNVLPGVGAETGQY LTEHPGIAKVSFTGGVASGKKV MANSAASSLKEVTMELGGKSP LIVFDDADDLAADIAMMANF FSSGQAKR/NGARVLCGGDGVR ARDRPNLRRENLRGKYHS*QR HRRPDAC*YRPL*RCGGRYAD D*VQAGAGSDGL*ATGHGGRR EC*PYVTGEAG
9087	39455	A	9146	3	504	DQQQNRQR/LIDCFPHAQWAKE VDVSDKEARCGVRCATRDHLP MVCNVPDYEATLVEYASSAEH KDDAVSAPVFDDLFI\GSRGLC SGPLCAEILAT*IS\DEPMPMDA SML\AALIPNRLWVRKLLKGKA VKAGAVHFRRSIIYFHPQQANA LDFPSTHIKYCTMLL
9088	39456	A	9147	197	353	YGFRWPD*AHPAIN*ASAASISF LRWLIRLTSITETAPLNAKQAI MPNTIL
9089	39457	C	9148	1	1263	
9090	39458	A	9149	3	726	GAKNAREAIYHIEGDPDHP\EN RLRYPEYRAPGSDKWQRISWEE AFSRIAKLMKADRANFIEKNE QGVTVNRWLSTVNKKKISLRT VGAALVLQVVGIMLWLPPG RWVAEKVAFGVHKVMAYSDA GSAFIFGSLVGPKMDTLFDGAG FIFGFRVLPALFVTALVSILYYI GVMGILIRILGGIFQKALNISKIE SFVAVTTIFLGQNEIPAIVKPFID RLNRNELFTAICSGMASIDG
9091	39459	B	9150	1	1662	
9092	39460	B	9151	1	2658	
9093	39461	C	9152	1	2526	
9094	39462	A	9153	422	585	PYRLKQNIAGA*PIKLPNAIAAP VLFSIAFASTIGAKILLAVLRSLR PHPSVHA
9095	39463	A	9154	1275	1485	
9096	39464	A	9155	1	439	

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9097	39465	A	9156	1049	2195	NMPKASSCRFSTATTYLRDRSC K*PWAGS*KKNSWR*CRRRTTS SHRTRLNATWGVSVKRRTKAR CSMVCASRG/SNARGLELVKE GRAQACVSAGNTGALMGLAK LLLKPLEGQNHRLLRWEAKL AALVRLQENTAQPVFPAPNNA RPLTLEDDRLSCTVRGYNFAITF SKMSGKPTSWQLVASALATKI AHEVNPQNQVGCMLAGGNFYF YSCKPEDVWAALKDRENLF DVQARGTYPAYSARVFREKGV TINKAPGDDEILKNTVDVFSFSY YASRCASAEMNANNSSAANVV KSLRNPYLQVSDWGWGIDPLG LRITMNMMDRYQKPLFLVEN GLGAKDEFAANGEINDDYRISY LREHRCNGRSDCRQAFR
9098	39466	B	9157	482	542	
9099	39467	A	9158	115	1662	TPYPDAITTHDIVDTYPVQGGGA VRVLVFSASLVRVSSVLFSLV WGFVSFCRRFVPCRVCLLCCL FWCFVFGVWLPRRHMSNHAAI GVGEQQCQRGNINGAPETFAS MANTGT*QW/QRISWEEAFSRI AKLMKADRANFIEKNEQGV VNRWLSTASLPTFGRGAMTN HWVDIKNANVVMVGMGNAAE AHPVGFRWAMEAKNNNDATLI VVDPRFRTASVADIYAPIRSGT DITFLSGVRLRYLIENNKINAEYV KHYTNASLLVRDDFAFEDGLFS GYDAEKRQYDKSSWNYQLDE NGYAKRDETLTHPRCVWNLLK EHVSRYTPDVVENICGTPKADF LK\APDRT\TTFLYALGWTQHT VGAQNIRTMAMIQLLLGNMGM AGGGVNALRGHSNIQGLTDLG LLSTSLPGYLTLPSEKQVDLQS YLEANTPKATLADQVNYWSNY PKFFVSLMKSFGDAAQKENN WGYDWLPKWDQTYDVIKYN MMDEGKVTGYFCQGFNPVASF PDKNKVVSCLSKLYMVVIDP LVTETSTFWQNHEAAVSGGKR PGRKRLNLLPMARLTTTASAT YANISAQWAKRLQTAFR
9100	39468	A	9159	1	2235	
9101	39469	A	9160	1	1821	

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9102	39470	A	9161	14	1785	FDQVEERVSVIEDQMNMKRE EKFREKRVIRNEQSLQEIWYV KRLNLHLIGVPESDWENGTKLE NTLQDIIQENFPNLARQANIQIQ EIQRMPPQRYSSRRTPRHILNA HKRK*ERYKIDTLTSQLKELEK QEQTYSKASRRREITKIRAELEK IETQKTLQKINESRSCFEKINKID RLLARLIKKKREKNQTDVIKND KGDITDPTEIQTIREYYKHLY TNKLENLEEMDKFLDTYTLPRL NQEEVESLNRPTGSEIEAIINSL PTKKSTGPDRTAEFYQRYKEE LVPFLLKLFQSIEKEGILLNSFYE ASTILIPKAGRDTTKKENFRPISL MNIDAKILNKILANRIQQHIKLL IHYNQVSFIPGIQGWFNICKSIN VIQHINRTKDKNHTIISIDAEKA FDKIQPPFMLKTLNKLIGDGT LKIMTAIYDKPTASTILNGQKLE AFPLKTGTRQGCPLSPLLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQT LLKLISNFSKISGYKINVQKSQV FPYTNNRQTESQIMSELLFTIAS KRIKYVGIGLTRDVKDLFKEN
9103	39471	B	9162	1	2025	
9104	39472	B	9163	67	3156	

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9105	39473	A	9164	1	2019	MDTIKNDKGDITDPTEIQTIR EYYKHL YANKLENLEEMDKFL DTYTL PRLNQEEVESLNR PVRG SEIEAIINSLPT/KKSPGPDEFTAE FYQRK\AFDKIQQAFTLKT LNK LVIDGTYRKIIIRAICDKPTANIIL NGQKLEAFPLKTGT RQGCPLSP LLFNIVLEVLDRAIRQEKEITCIQ LGKEEVKLSLFADDMIVYLENP IISAQNLLKLISNFSKVS GYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKKIKYLG IQLTRDVKD LFKENYKPLLNEIKEDTNK WEN IPCSWVGRINIMKMAILPKVIYR FNAIPIKLPVAF FTELEKTTLKFI WDQKRAYIAKSILSQKNKAGVI MLPDFKLYYKATVTKTAWYW YQNRDIDQWNRTEPSEIMLHIY NYLIFDKPDKDEQWGKDSL FN KWCWENWLDIWRKLKLD PFLT PYTKINSRWIKDLNVRPKTIKTL EENLGNTILDIGMGKDFMSKTP KAMATKAKIDNWDLIKLSFC TAKETTIRVNRQPTKWEKIFTT YSSDKGLISRIYKELKQIYKKKT NNPMNKWAKDMNRHFSKEDI YAAKRHMKKCSSSLAIREMQIK TTMRYHLTPVRMVIKKSGNNR PPLSKEQPPIFRLSILATTRDGN PAAVENVLHIKATLSFQQTHKA FYFQPS
9106	39474	A	9165	1	3477	

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9107	39475	A	9166	1	2460	MGDFNIPLSTSDRSTRQKVNKD TQELNSALHQADLIDYRTLHP KSTEYTFFSAPHHTYSKIDHIVG SKALLSKCRRTEIITNCLSDHSA IKLEIRIKKLTQNCSTTWKLNNL LLNDYWVNNEMKAEIKMFFEI NEDKDTTYQNRWDTFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQEI TEIRAELEIETQKTLQKMNES RSWFFEKINNIDRLLARLIKKKR EKNQIDAIAKHNHKGDIITNPTEIQ TTIREYDKHLYANKLENLEETD KFLDTYILPRLNQEQUESLNRPI TGAEIEAIIINSLRTKKSPG\PGGF TAEFYQRYKEE/HVLEVLARAI RQEKEIKGIQLGKEEVKLSLFA DDMTVYLENPTVSAQNLLKLIS NFSKVSGYKINVQNPQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDMKELFKENYKPLLS EIKEDINKWKNIPCSWVGRINIV KMAILPKVIYRFNAIPIKLPMTF FTELEKTTFFKIWNQKRARIAK SILSQKNKAGGITLADFKLYYK ATVTKTAWYWYQDRHIDQWN RTESSEIMPHIYNLIFDKPDKN KKWGKDSL FNKWCWENWLAI CRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKLEENLGITIQDT GMGKDFMSETPKAMATKDKID KWDLIKLSFCTAKETTIRVNR
9108	39476	A	9167	1	1389	

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9109	39477	A	9168	1	1659	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRSLH AKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWIHDEMKAIEKMFF ETNENKDTTYQNLWDAFKATA SKTNKEKEKNQIDTIKNDKGDI TTDPTEIQTIREYYKHLANK LENLEEMDKFLDTYTLPRLNQE EVESLNRPIGAEIVAHNSLPTK KSPGPDGFTAIFYQRYKEELHI NRAKDKNHMIIISIDAEKAFDKI QQPFMLKTLNKLIDGTYFKIIR AIYDKPTANIILNGQKLEAFPLK TGTRQGCPLSPLLFNIVLEVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMTVYLENPIVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLGQLTRDVKDLFKENYKPLL KEIKEDTNKWKNIPCSWVGRIN IMKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQK\RARI AKAILSQKNEAGGITLP
9110	39478	B	9169	1	1716	
9111	39479	B	9170	1	3171	
9112	39480	A	9171	1	2952	MLLNQGRKLPRVFAEETLKFK GTSNKPQTLEQISTSHAQKEAT VMVPGSNQEIPSGAYAIRALGF KHKTGRLFEQTLNYLQEFLLTP QWHLECQQERTVHSPGKAAEA REPSVIDRHLIQESSNWHLVGA ALGQSFORKEQAAIFAVLQPLL VIPRQTGSGVDLQKTPTDLQQR GLIVRRKTNKQKGIVHNSTTRE QNWTENEFDKLTEGGFKRWVI TNSSELKEHVLTQCKEDKNLEK SAIKLELRIKNLIQN
9113	39481	B	9172	1	2406	
9114	39482	A	9173	1	2307	

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9115	39483	A	9174	3	2776	QRDLDSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDIYRTLHPKSTEYTFFSAPHH TYSKIDHILGSKALLSKCKRTEII TNCLSDHSAIKLELRIKTLTQSH STTWKLNLLNDYWVHNEM KAEIKMFFETNENKDTTYQNL WDAFKA VCRGKFIALNAHKRK QERSKIDTLTSQLEKEKQEQT HSKASRRQEITKIRAELKEIETQ KTLQKINESRSWFFERINKIDRP LARLIKKKREK
9116	39484	B	9175	133	3213	
9117	39485	A	9176	284	1689	QNFGNFKDLL*RSLW*REKSWI CML*ARNTASRQQRNKAGQR MTLMS*EKKASDDQTSPS*R/Q EVRTHRKEAKNLVKRLDKWLN RITSVEKSLNDLMELKTM/RTR TTT**MHKLQ*PI*SFGKKEIQT IRE\KHL\YANKLENLEEMDKFL ETYTLPRLNQEEVESLNRPTGS EIEAII NSLPTKN SPGPDRFTAKF YQMYKEELVPFFLKLFSIEQE GILPNSFYEASIIIPKPGRDPTK KENFRPISLMNIDAKIFNKILAN QIQQHKKLIHHDQMGFIPGMQ DWFNIRKSINVIQHINRTKDKN HTIISIDAEKAFDKIQQCFMLKT LNKLGIDGTYVKIIRAIYDKPTA NIILDGQKLEAFPLKTSTIQGCP LSPLLFNIVLEV LARAVRQEKEI KGIQSGKEEVKLSLFADDMTV YLENPIISAQNLLKLKSNFSKVS GYKINVQKSQAFLYTNNREP
9118	39486	A	9177	1	1515	

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9119	39487	A	9178	3	1601	ESRS*FFEKINKI/D/RLARLIKK KREKNQIDAIAKNDKGDITTDPT EIQTIREYYKHLTYNKLLENLEE MDKFLNTYTLPRLNQEEVESLN RLITGSEIEAIINSLPTKKSPGLD TFTAIFYQRYKEELVPFLLKLF QSIEKEGILPNSFYEAIIILIQKPG RDTTKKENFRPISLMSINAKILN KILANRIQQHIKKLIHHDQVGS PGMKGWFNICKSINVMQHINRT KYKNHMIISIDEEKAFQKIQRKF MLKTLNKLSDGTYLKIIIRAIYD KPTANIILNGQKLEAFPLK/NGT RQGCPLSPVLFNIVLEVLRARAI/ RLISCFSKVSGYKINVQKSQAFL YTNNRQTESQIMSELPFTIASKR IKYLGQQLTRDVKDLFKENYKP LFNEIKEDTNKWSIPCSRVGRI NIVKTAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQKRACIV KTILSKKNKAGGITLPDFKRY KATVTKTA/WSFHELGKTQLAT RTTVSTFQQIPGI*VQLRFDFSR DITLLSLLCR
9120	39488	B	9179	1	2034	
9121	39489	B	9180	1	2088	
9122	39490	A	9181	1	1870	MKAIEIKMFFETNENKDTTYQN LWDTFKAVCRGKFIALNAHKR KQERSKIDTLTSPLEKEKQEQT HSKASRRQEITKIRAELEIETQ KTLQKINESRSWIFESINKIDRPL ARLIKKKREKNQIDAIAKNDKGD IITDPTEIQTIREYYKHLTYANK LENLEEMDKFLDYTLPRLNKE EVESLNRPIGAEIVAINSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQSIEKDGLPNSFYEASI ILIPKP
9123	39491	A	9182	1	1410	
9124	39492	A	9183	1	3996	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9125	39493	A	9184	281	3030	KPRLENYMKNAEASRADAINW KKG Y/LVMEDKMNEMKREGKF REKRIKRNKQSLQEIW DYVKRP NLRLISVPESDRENGTKLENTL QDIIQENFPNLARQANIQIEIQ RTPQRYSSRRATPRHIVRFSKV EMKEKMLRAAREKEIQTNIREY YKHRYANKLENLEEMDKFLNI YTLRRLNQEEVESLNRPIRGSEI VAIINSLPTKKSPGPDGFTA EYY QRYKEELVPFLKL FQSIEKEGI LPNSFYEASII
9126	39494	A	9185	1	2250	
9127	39495	A	9186	248	2385	RQWAGVVGRCSHLASWVSSNT SETGAIRSSTEVDAPDDSM LLST CDIDLTAARRAWLGCLPTKKSP GPDGFTA E FYQRCKEELVPFL L KLFQSI/EKEGILPNLFDEASII PKRGRD TT KKENFRPISLMNID AKILNKILANRNQQHIKKLIHH DQVGFI PG MQG WFNICKSINVI QHINRTKDKNHMIISIDAEKAF DKIQQPFMLKTLNKL GIDGTYL KIIRAIYDKPTANIILNGQKLEAF PLKTGTRQGCP L SPLL FNIVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSAYKINVQKSQAF LYTNNRQTESQIMSVFPFTIASK RIKYLGIQLARNAKDLFKENYK PLLNEIKEDTKKWKNIPCSWVG RINIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA RIAKSILSQKNKAGGITLPDFKL HYKITVTKTAWY WYQNRDIDQ WNRTEPSEITPHIYNYLIFDKPE KNKQWGKDSL FNKWCWENWL AICRKLKLD PFLTPYTKIHPRWI KDLNVRPKTIKTLEENLGNTIQ DIGMGKDFMSKTPKAMAAKA KIDKWDLIQLKSFCTAKETTIRV NRQPTKWEKIFATYSSDKGLIS RIYKELKQIYKKK\TNNPIKKW AKDMNRHFSKEDIYAANKHM KKCSPSLAIREMQIKTTMRYHL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9128	39496	A	9187	1	2229	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VQNFKNLEECITRITNTEKCLK ELMELKTKARELREECRLRSR CDQLEERVVSAMEDEMNMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRTPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKEIQT TIREYYKHLYANKLENLEEMD TFLDTYTLPRLNQEEVESLNRPI TGSEIVAIINSLPTKKSPGPDGFT AEFYQRYKEELVPFLCLKLFQSIE KEGILPNSFYEASIIIPKPGRDT TKKENFRPISLMNIDAKILNKIL ANRIQQHIKKLIHHDQVGFIPG MQGWFNIRKSINVIQHINRAKD KNHMIISIDAEKAFDKIQPFML KTLNKLIGDGTYFKIIRAIYDKP TANIILNGQKLEAFPLKTGTRQ GCPLSPLLFNIVLEVLAIRQE KEIKGIQLGKEEVKLSLFADDM IVYLENPIVSAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMGELPFTIASKRIKYLGIQ LIRDVKDLFKENYKPLLKEIKE DTNKWKNIPCSWVGRINIVKM AILPKVIGKTTLKFIWNKKSRIAK SILSQKN/KAGGITLLTQLYYKA TVTKTAWYWYQNRDIDQWNR
9129	39497	A	9188	1	2667	
9130	39498	A	9189	1	3033	MADMLTWESCLEESLQEESPL VTHCGPSCCISGQSPSSARPSS VSSAISVLMLPQNRKLPPAWTS PGIFPTDLVVYSMSLPHALARY NCDVCKSMLPPRLYAPEEKAR TSPLCGTWYSPSLPLCGAWCKK NEKKRERERERKRQREDILSGA SSYKDTIHIQLRPPPYDVLQQIQ TTIREYFKHLYANKLENLEEMD KLLDTYTLPRLNQEEVESLNRPI TGSEIVAIINSLPTKKSPRPGFT AEFYQRYKEE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9131	39499	A	9190	1	950	MQAICTGQARALICMGGNFAL AMPDREASAVPLTQLDLAVHV ATKLNRSHELLTARHSYILPVLG RSEIDMQKNGAQAVTVEDSMS MIHASRGVLKPAGVMLKSECA VVAGIAQAALPQSVVAWEYLV EDYDRIRNDIEAVLPEFADYNQ RIRHPGGFHLINAAAERRWMTP SEIQTIREY\YKHLTYTNKL\ENL EEMDKFLDTYSLPRLNQEEVES LIRPITGSEIEAVVNSPPTKNSPG PDRFTAKFYQRY/K/EELVPFFL KLFLAAVPAPSSHGPFCCSRKA LRGSKTGSAYPSSSALRRVTVS EVLCLFAEAQLF
9132	39500	A	9191	1	3470	MASVSSATFSGHGARSLLQFLR LVGQLKRVPRTGWVYRNVQRP ESVSDHMYRMAVMAMVIKDD RLNKDRCVRLALVHDMAECIV GDIAPADNIPKEEKHRRREGNK CHKQKAMGKHLKEPHVLGQET KGLESTDVLLPLPAAGQDLGRE KKIRREAMKQITQLLPEDLRKE LYELWEDLEFESPSCDLSLCC SLKPQSESSPVLPEGCETLIQRL CAVGTGVTAAALATRLCRASGL PAPHQWASELQRSRKKE
9133	39501	A	9192	1	3907	MAAWNLLKSYAYWGGLRKE DFHCLDRKTLRTVSFLAALLSY ESIGGKGKLTTRKDIYTENPSV HHHHQRPKVDKTTKMGKKQN RKTGNSKMQSASPPKERSSP ATEQSWMENDFEELREEGFRRS NYSELRREDIQTGKEVENFEKN LEECITRITNTEKCLKELMELKT KARELREECRLRSRCDQLEER VSAMEDEMNMKREGKFRDK RIKRNEQSLQEIWDYVKRPNLR LIGVPESDVENGTKLENT
9134	39502	A	9193	3	3197	

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9135	39503	A	9194	1	3158	MVKGSIQQEELTILNIYAPNTG APRFIKQLLSDLQRDLDSHTLIM GDFNTPLSTLDRSTRQKVNKDT QELNSALHQADLIDIYRTLHPK STEYTLFSAPHHTYSKIDHILGS KALLSKCKRTEITNYLSDHSAI KLELRINKLTQSRSTTWKLNLL LLNDYWRKQERSKTDLTSQL KELEKQEQTTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRPLARLIKKKEKNQID TIKNDKGD
9136	39504	A	9195	1	3285	
9137	39505	B	9196	1	1366	
9138	39506	A	9197	735	3541	RSFPRSRPSPFLLLSRYLRIHVMV FSVLPFGLQNP KYLLSGSLQEK FRTPGINSHKTLDPNRVHKVRR RLEKEKALRAYVGKSEVRNMH LRERCKL*KKREKNQIDTIKND KGDITTDATIEIQTIREYYKHLY ANKLENLEEMDKFLDTYILPRL NQEEVESLNRPTGSEIEAIINSL PTKRSPGPDGFTAIFYQTYKEE LVPFPLKLFQSTEKEGILPNSFY EASILIPKGRDITTKENFRPIS
9139	39507	A	9198	1	5356	MGKKQNRKTGNSKMQSASPPP KERSSSPATDQSWMENDFDEL REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERVSADEMNEMK QEGKIKRDKEGHYIMVKGSIQQ EELTILNIYAPNTGAPRFIKQVL SDLQRDLDSHTLIMGDFNTSLL TLDRSMRQKVNKDTQELNSSL HQADLIDIYRTLHPKSIEYTFSS APHHTYSKIDHIVGS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in U/SSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9140	39508	A	9199	1	2491	MGDFNTPLSTLDRSTRQEVNK DTQELNSALHQVDLIDYRTLH PKSTEYTFFSAPHYTYSKIDHIV GSKALLSKCKRTEITNCLSDHS AIKLELRIKKLTQNHSTTWKLN NLLLNDYWVNNEVKAIEKMFF ETNENKDTTYQNLWDTFKAIN KIDRPLARLIKKKREKNQIDAIK NDK\WDITTDPTIEIQTIREYYK HLYANKLENLEEMDKFLDTYT LPRLNQEEVESLNRPTGSEIEAI TNSLT\TKKSPGPDGFTAKFYQR YKEELVP\FLLKLFQIEKEGILP NSFYEASILIPKPGRD\TTKQKK NFRPISLMNIDAKILNKILANRI QQ\HIKKLIHHDQVGFIG\MQG LFNICKSINVIIHHINRTKDKNYM IIS/I*DAEKAFDKIQPFMLKTL NKLIGIDGTYLKHRAIYDKPTAD IILNGQKLEAFSLKTGTRQGCP SPLLFNIVLEVLAARVRQEKEIK GIRLGKEEVKLSLLADDMIVYL ENPIVSAPNLLKLISNFSKVS GYKINVQKSQAFLYTNNRQTESQ IMSELPFTIASKRIKYLGIQLTRD MKDLFKENYKPLLNEIKEDTNK WKNIPCSWVGRINIMKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRARIAKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIT PHIYNYLIFDKPEKMSIIDTGGW
9141	39509	A	9200	1	3083	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELREECRLRSR CDQLEERVSADEMNEMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRTPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKEIQT TIREYYKHLYANKL

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9142	39510	A	9201	1	4201	MRKKQSRKTGNSKKQSTSPPPK ERSSSPAMEQSWTENDFDELRE EGFRRSNYSKLQEEIETKGQEV ENLEKNLDKCITRITNIEKCLKE LMELKAKARELHEECRSLRSRC DQLEERVSVMEDEMNMKQE GKFREKRIKRNEQSLQEIWDYV KRPNLPPIDVPESDRENGTKLE NTLQDVIQENFPNLARQANIQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKAFKQ ASRREDDIAKVTS
9143	39511	A	9202	715	6193	GQHHPDTKAWQRHNKKKENF RPISLMNIDAKILNKMLANQIQ QHIKKLIYHDQVGFIPGMQGW NICKSINVIIHHNRTKDNHMI SIDAAKAFDKIQPFMLKTLNK LGIDGTYLKIIRAIYDKPTASIL NGQKLEAFTLKTGTRQGCPLSP LLFNIVLEVLARAIRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIISAQNLLKLIGNFSKVSQYTIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKR
9144	39512	A	9203	1	3682	KEGHYIMVKGSIQQEELTILNIY APNTGAPRFIKQVLSDLQRDLE SHTLIMGDFNTPLSTLDRSTRQ KVNKDTQELNSALHQADLIDIY RTLHPKSTEYTFFSAP\HHTYSK IDHILGSKALLSKCKRTEIITNCL SDHSAIKLELRIRKL\TQN\RSAT WKVNNLPPGMTYWVHNGNE GQKLKMFETQWE/HKDTAYQ NLWDTFKAGCRGKFIALNAHK RKAGKDPKLTPLTSQKK\LEK QEQT\HSKAS
9145	39513	A	9204	1187	1680	DSPCTIASTRSYSFICNRPLSVDI QLRCSNRVRLSTYC/LYLRQ LRJEGGNFVFTTKADNGPQQIIT *TNSFPVGNNAQTVKVRHHILT FFINLFGKEIGGPDHFNNGFTQP LPSSGTQPQHLSCVTIDGGNVT MRIHRNQPFINRTKQRLLLTDH ACDLLWLH
9146	39514	A	9205	3	293	ERSWSQLLFSTEQFWQQLPGTG SGRARQNISRKTPREHAGGYRR DNGNNWAVPHIQCNLVPR**K RPPVRAHRAPETLCASKALQEQ RYWVFELLR
9147	39515	A	9206	1	4509	
9148	39516	A	9207	1	507	

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9149	39517	B	9208	1	3448	
9150	39518	A	9209	1	2652	
9151	39519	A	9210	75	784	
9152	39520	B	9211	1	1968	
9153	39521	A	9212	1	298	LQGHVLVDYVLSLSCLPFGIMGH GNWPLWVLTACLVLLLC*/WSL RRQ*IQQ*APSDQKRDFLVPHG A/VFDR*ISATCWSSINWPANCS RPSIAGWPKQAS
9154	39522	B	9213	167	362	
9155	39523	A	9214	959	1267	YHWHQLLSMVRQLMVLSWKK ISSWFMGPPIIRKSILAENSI*KN LV*VILKLTEGISTLK*MAPQN TQY*MTVIKLFKWVARQTRLR SIMVCYSSTTTLLT
9156	39524	A	9215	370	555	
9157	39525	A	9216	1	1016	MSHQLTFADSEFSSKRRQTRKE IFLSRMEQILPWQNMVEVIEPFY PKAGNGRRPYPLETMLRIHCM QHWYNLSDGAMEDALYEIASM RLFARLSLDSALPDRTTIMNFR HLLAQHQLARQLFKTINRWLAE AGVMMTQGTLDATIEAPSST KNKEQQRDPEMHQTKKGNQW HFGMKAHIGVDAKSGLTSLV TTAANEHDLNQLVQNELETAE RFRRQEDTQSKCLLSSIMLYIKN LSGPDVSELISPLSEGFNLCSV VVAVIAAVLRRAPIHMPSGWW RSWNAESGAYNVTRSGDSYI/H G*LLYRSRKLDPADDEGALQK WWSVLPFFKRRLWF
9158	39526	A	9217	408	643	PGCGSGHSWHRHQC GPSCQSA TDCLSWSDASPDRVAALCSWS SWVPQ*WWHR/HKVP*VIMTP ASASQRLMVLNNWRAS
9159	39527	A	9218	626	760	
9160	39528	A	9219	1	2469	
9161	39529	A	9220	1	756	
9162	39530	A	9221	1738	1913	PTAWSPRPTSMTSISWVICFME RSNLSQMPATKERHSARSWPR WMWTG*SPSVPAR
9163	39531	A	9222	2403	2760	FRGDGILVSCPLVFSSAFSWRA ADGGKNRNVHPSV/VR*AGAL RPRTQSRIQ/SQRLNKVEKGGV KQFEHNQSCRQQVGVTIHKVVK QLADILPHGHFQFYAEVIGKLF RQRSARDAIRGSS
9164	39532	B	9223	1	3663	

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9165	39533	A	9224	1	1584	MELIEKHVSFGGWQNMRYHYS QSLKCEMNVGVYLPKAAANEK LPVLYWLSGLTCNEQNFIKSG MQRVAAEHNIIVVAPDTSRGS HVADADRYDLGGAGFYRNA TQAPWNEHYKMYDYIRNELPD LVMHHFPATAKKSISGHSMGG LGALVLAALRNPDYVSVSASFSP IVSPSQVPWGQQAFAAYLAEN KDAWLDYDPVSLISQGQRVAEI MVDQGLSDDFYAEQLRTPNLE KICQEMNIKTILIRYQRGAICSAD AATRGAKRESCRSGLLIAER PAKVEPGTASRQDNTAINIEM KASIRARVEHPRIKRQFGFVK ARYKGLLKNETNWCYSRWP/ HLFRADQMIRNPHDLYAPEVV HQAQVTTSGYRFLPCCGFAN TFWGKTTADGTLIEHFGRRCCG WFEDDDGHREQCDFRFRFKNC PQCNAENDIAARRCRECDTVLV DPDDMLKAALRLKDALVLRCS GMSLQHGHEKGEWLKITYYD EDGADVSEFRQLTPAQRATFE QLFIRPHTRTPGI
9166	39534	C	9225	1	2127	
9167	39535	B	9226	1	1917	
9168	39536	A	9227	1671	2198	RAGAWASDPRQGVVRNAALL PPDDRSDDRDAKTQSHRDG/VI SY/RAFDETILASGIVRTPPIDGI DHPKNEADDMLRMGFIEDVETI /IGADPGRSSDRSVLCNHAGSDS SHYPPLYERAAGSAHSVQRDYP SGHQPELLDCLGYARTRSTDTG TPERWSSGHPDCDRRCSPWGR
9169	39537	A	9228	642	746	
9170	39538	A	9229	1	2031	
9171	39539	A	9230	909	1058	
9172	39540	A	9231	2	268	WRCLLRQLKFIKTVTSWICTG KLMLSTTSPLMMQMMVILLMP VLASKVKPKSTIN*LVSVSGNM NSKATALNLKVPPIKPVLP
9173	39541	A	9232	63	463	FPATCWSSINWPANCSRPSIAG WPK/PGVMMTQGTLDATIEA PSSTKNKEQQRDPEMHQTKKG NQWHFGMKAHIGVDAKSA*P TAWSPRPTSMSTISWVICCME RSNLSQMPATKGRHSARSWP RWMWTG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9174	39542	A	9233	74	247	RNVMIKRRVLSSTSAS*LPPASA FCRLFSTPARWRSTACFTSGNR YRFLTVRLSGYW
9175	39543	A	9234	3	271	ASYWNRSPWGTYNRHPR*N RQCASRHCRLHKQYQWPRI S/WLNCTPAPHARDVLLWRPSS LPAGNADGPIRWRPCCVFTACS IGTT
9176	39544	A	9235	1	1048	MCSFRSQTFCSSSRFTFARVSVI HSANHRVLNDRSTIMRTRGQD PTLPEMRRVRLLEMADAMDMF CQGLRYGPLPAPVRQQAIIIPC HRVVRGDGTLGTYRWGVSRA QLVRREAENEERPINRGWPKQP SDDPKHFVMPTHIEAPSSTKNKE QQRDPEMHQTKKGNQWHFGM KAHIGVDAKSLTHSLVTTAA NEHDLNQLGNLLHGEKQFVSA DAGYQGAPQREELAEVDVDW LIAERPGKVKTLLKQNPKNKTA INIEYMKASIRARVEHPFRIKR QFGFVKARYKGLLN\ETNWR CYSPWPTCFGWTK*YPSIPTCLL TTRTASLLKPPGVRTSVCWQQL

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9177	39545	A	9236	1	2493	MTQIFTGTLVEADPFHAVTLVA NHDTQPLQALEAPVEPWFKPL AYALILLRENGVPSVFYPDLYG AHYEDVGGAGQTYPIDMPIIEQ LDELILARQRFAHGVQTLFFDH PNCIAFSRSGTDEFPGCVVVMS NGDDGEKTIHLGENYGNKTWR DFLGNRQERVVTDENGEATFFC NGGSVSVWVIEEAANNRQYDY GAGHKIPVINYTDVHLRIERSCR FRADPRQQHELQLSSKLAVHD VLTNIYNRRYFFNSVESLLSRPV VKDFCVMLVDINQFKRINAQW GHRVGDKVLVSVIDIQQSIRPD DILARLEGEVFGLLFTELNSAQ AKIIAERMKNVELLTGFSNRY DVPEQMTISIGTVFSTGDRNIS LVMTEADKALREAKSEGGNKH WYNLSDGAMEDALYEIASMRL FARLSLDSALPDRTTIMNFRHL LEQHQLARQLFKTINRWLAEA GVMMTQGTLVDAIIEAPSSTK NKEQQRDPEMHQTKKGNQWH FGMKAHIGVDAKSGLTHSLVT TAANEHDLNQLGNLLHGEEQF VSADAGYQGAPQREELAEVDV DWLIAERP GKVRTLKQHPKRN KTAINIEYMKASIRARVEHPFRII KRQFGFVKARYKGLLKNMETN WRCYSRWP/HLFRADQMILCPV FVHHIPRFFGTFFGATDTQTFTL TESVIHQPLVLTNFIADGNDA
9178	39546	B	9237	1	3148	
9179	39547	B	9238	1	1680	
9180	39548	A	9239	191	470	

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9181	39549	A	9240	1	1675	MFARVSTTPVTRYEMYRKTRS TRLEDNNALSQSKPLPFSEVT GSKGKADKEKVG DYVFCLKAQ GRYNGEPLTGTGKIGGMLALR GEGTFFPVQADFRSGNTRVAFD GVVNDPMKMGGVDLRLKFSG DSLGDLYELTGVLPPDTPPFET DGRLVAKIDTEKSSVFDYRGFN GRIGDSDIHGSLVYTTGKPRPK LEGDVESRQLRLADLGPLIGVD SGKGAEKSKRSEQKKGEKSVQ PAGKVLPYDRFETDKWDVMD ADVRFKGRRIEHGSSLPISDLST HIILKNADLRLQPLKFGMAGGS IAANIHLEGDKKPMQGRADIQA RRLKKELMPDVELMQKTLGE MNGDAELRGSGNSVAALLGNS NGNLKLLMNDGLVSRNLMEIV GLNVGNYIVGAIFGDDEV RVN CAAANLNIANGVARPQIFAFDT ENALINVTGTASFASEQLDLTID PESKGIIRITLRSPLYVRGTFKNP QSG*WS/GTLLLSTKAKTIVAISI TTLKVTVMASVLLPMNTKDS VSVQLMRNLIVPTLKLMMQKFF LKYLLPVKM MQKFGPQV
9182	39550	A	9241	72	506	GHVAHLQPRAGGRQPARLHHP QGTDRVLHGQRGQQPGP/LLPS LSAWRPSTSTLKPASCLRGPT SKRMSM\QDGGPLPHRAGAQP PVHPGQEA VG*C/EYWSASSRP VTQPGALMWRLWSAGRPRPY LLSHSQHDPHSGQGGGEHP
9183	39551	A	9242	1	447	
9184	39552	A	9243	70	490	CGCDAETIILRINALAFIWKCGT EWICCFCLALRELQQA VHAG LPQQA KILFDGGSEIGKIH*LRC AHCPLSSGKPVVPAALMNRPT RGERRFAYWAPGWFFFSPVRR ATADCPSPGP PERVAASGPRWF APAGENPV

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9185	39553	A	9244	1097	1841	ANDGDLRSCVTLSCHMSHASE AADPPATTAFTDEHMSVKLRR TVGVACSVCPGWVTSGHPVNP AAS/GAKVLPGDTDIALPGPLPF ILSR\QLRDNTLILSDNGG\RILY FELLFPGEDGYRRCESLWLVRG GVAKLDQGHRLAALWQALSEE LRLTPHRYLATNSPQGPWWLL GWCERVPEADEVLPAPLPPYRV LTGLVDRIWRSEDVSAASGLHH DNRNAPSLSDQTRTDPPIRAHA SRYQRQKPDG
9186	39554	A	9245	456	928	EAATEPKHLHQLRHAALAQHR QAPRPQGRPLARPHQGQDQPD RLHHLRGGGRHGARGHLHQA GAGESAPAPKG/VTCPASPLGD VTGKPTSAWNTEKGRWAQHR GYPSGPAAPLVLRSWPIPLFRP PLLPLSSPAWILPSPLCHSLKA QSLVQATI
9187	39555	A	9246	1	1572	

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9188	39556	A	9247	1	2505	MAWRNSVNWQCKQEPGLHR RHGRRKLTNGTTRRSLQNKEE DFYTSQPGFPALALGCCLRVNL LLGHRGISAGSSYPITSTPCHL CKLGQEVFAKPLNLQDQCQN LVMQVLKLVNCLNFDFIGSSA DESADDLCTVQIPTTWRTMGL VGCDGVCCRTRWCQCLATAV VSGVGGGPWLLPACSSGSPMIS KRKKFVHKWAKDLVEPRHGLE NVWDLPRAMAGSYLMYKORK WKIMEFGKWALQHKMTVKDIE RLQLYNKVKEQPQVEGSGRA STIFWVLKTFKGGKSPCGAPGE CVAWTQCRILGWVQIHKEHP ADRVVGLIKMPGLDFYFAADV CYAEKVAQEKGLYRLTSRYR HYAAFERATFEQGKSTKLMMML TDKQIADFQKHYTEPERFQILP PGIYPDRKYSEQIPNSREIYRQK NGIKEQQNLLLQVGSDFGRKG VDRSIEALASLPESLRHNTLLFV VGQDKPRKFEALAEKLGSERAS MEFKRYEYNAAGDLTAVITPD GNRSETQYDAWGKAVSTTQG GLTRSMEYDAAGRVISLTNENG SHSVFSYDALDRL\DEGLVIL WYYDESDRITHRTVNGEPAEQ CQYDGHGWLTDISHLSEHRV AVHDGYDDKGRLTGECQTVEN PETGELLWQHETKHAYNEQGL ANRVTPDSLPPVEWLTYGSGYL
9189	39557	A	9248	481	857	PLAYLYRDPHVRRCVTASGPAP VYGIFQPGFSAPTG/IRKSVHGD HSYCKYAHSCSRQYRAPEPRLS RTSQCLFSHRSARCPLLDLMGR RYRRPECRLSPLLPAAPVPGLPP WTIYPRRLYRNSPR
9190	39558	A	9249	777	1229	GAGYSSARCGKHHARTGGAGR NILWRQLRRRGCRSTVDRSHH NQPGTWRRHQPGPRGPAKPAR PWRAGTHLPTGTASVRHPCLG QPLRAEPRPAVPDAPRNQNLPF PAPQTDSALPGAVRG*RAR*YH *SRTTTPPPDEHDHSWARACSP
9191	39559	B	9250	1	2681	

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9192	39560	A	9251	933	1828	VSRIHVLVWQPRMPAPPAVDW LTY/GSGIL/SGNKLVGTPLEVEY TRDSLH/RETLRSFASMAGSNA AY/*LTSTDTPAGQLQSQH/LNS LVYDRDYGWSNDGD/LVRISGP RQTREYGYSATGRLESVRTLA PDLDI/RIPYATDPAGNRLPDPE/ LHPDMRADGGATGQKVEPEYT PARKAHL YHWTTGDCRWRLSA KTAIRVERGI**MGQPAY*GEPH HVVYQPR*TWHWRWRQKGRKS ASGRRYLRPINPNNVGRENQRP TSPDGTHMAPISLMAWQPIQLR YRGHVRQRLSAVGERIYRYLPP
9193	39561	A	9252	1	1409	MECDASALLRYDSRQFIPLAID GLAKDVLGRRFALEGHPRLAIAI ARAGDVVRFPADSELPDPYDG LIPGQESLKVHACVGLPLFAGQ NLIGALTLDGMQPDQFDVFSDE ELRLIAA\LAAGALSNAALLIEQL ESQNMLPGDATPFEAVKQTQM IGLSPGMTQLKKEIEIVAASDLN VLISGETGTGKELVAKAIHEASP RAVNPLVYLNCAALPESVRKSE LFGHVKGFTGAISNRSGKFEM ADNGTLFLDEIGELSLVLQAKL LRVGQYGDQIRVGDDRCLRVD VRVLAATNRDLREEVLAGRFR ADLFHRLSVFPLSVPLRERGD DVILLAGYFCEQCRLRQGLSRV VLSAGARNLLQHYSFPGNVREL EHAIHRAVV\LARATRSRGDEVIL EAQHFAFPEVTLPTPEVAAPV VKQSLREAT*AFQRETIRQALA QNRKWTACARMLETSVANV HRLGKRLVLKK
9194	39562	A	9253	389	799	PQFLIPSVTPCMFIHPLDAK/AR DLRRGDKVKVVSRRGEVISIVE TRGRNRPPQGLVYMPFFDAAQ LVNKLTLDATDPLSKETDFKKC AVKLEKACPYDTLKLATLASG LSAGTPYFVARDIPCEMCEDIPC AKVCPS

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9195	39563	A	9254	588	1500	RHPPIPAKIGLHAVAQDRA\NN MQAGPNINEERMPGWRDPRNF IIVSDPYPTVSALAADL/TPEVSK FPGSELAEDQLNDESRELGFYL QKGLFEEYAWFGRGHGHD LAP FDDYHKARGLRWPVVNGKET QWRYSEGNDPYVKAGEGYKF YGKPDGKAVIFALPFEPAAEAP DEEYDLWLSTGRVLEHWHTGS MTLRVP*LHRAFPDAGLFIYPL DAKARDLRRGDKVKVVSRRGE VISIVETRGRNRPPQGLVYMPFF DAAQLVNKLTL DATDPLSKET DWP HFSSTYNGPLLQGANKGIL VQQH
9196	39564	A	9255	1	1698	MEREQDSIIMDAATTRNLEITQ NLAGGAENTLASVLDCTVT ^{PM} GSRMLKRWLHMPVRDTRV LLE RQQTIGALQDFTAGLQPVLRQV GDLERILARLALRTARPRDLAR MRHAFQQLPELRAQLETVD SA PVQALREKMGEFAELRDLLER AIIDTPPVLSWMSGARWLTARP IICNIEVDRTIRHTKMNVGDVQ RLSVAVVVNYKTL PDGKPLPLS NEQMKQIEDLTREAMGFSEKR GDSLNVVNSP FNSSDESG
9197	39565	A	9256	590	910	SCSIQLSPWILPRTVMCPVGFTC ELLST*WLAKEPLKTVSWITIRS FTAETSTFGPTMTASMTFLPTY CSIIASLLSSFKLAAAILNSLPQI GRYITIGSGVRRNA
9198	39566	A	9257	1	854	MANRMILNETAWFGRGAVGA LTDEVKRRGYQKALIVTDKTL VQCGVVAKVTDKMDAAGLAF AIYDGVVANQH YCRQDSS EDF AEMSLIEGRRGLRRRPLWEFEI DTARQQNLNQFGTRDLVGFGV ENAPRGLCAAGCLLQYAKDTQ RTTLPHIRSITMEREQDSIIMDA ATTRNLEITQNLAGGAENTLAS VLDCTVT ^{PM} GSRMLKRWLHM PVRD/DPRVA*APANYWRIAGF HRRATAGTASGRRPGTYSGTSG FTNCSPTRSGPYAPRFPATAGA ACAVRNCR
9199	39567	B	9258	122	868	

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9200	39568	A	9259	2610	2897	PNLYLRFFFFFFLREQESHVSTQA GVQWCNLSSLQPLPPGFKQFSH LTGLPKCWDYRSKRPRPANQT SILDVKEDPY*LHWPRSNRDIK LNLVANP
9201	39569	A	9260	2166	2426	VQPGGCGL*RQHGSYRPESRTA GGRHRG*RRLRRAFIDGGANSS GTGICRDAFNRIHWGTGRTGRP DVDSGEHRKTAEQRRDGAVR
9202	39570	A	9261	846	1022	
9203	39571	A	9262	1	1339	MNALSKARQYVEEFDGNIAFI FSGKPGTGKNHAAAICNELL RERNLGESEIHSTSDHMTATL PGETQTPEDFRDVEQRQQVVI FQHLVGCVKVDGKYIQVCTFT VGGNYGGTCLRGDESLVIKES DIEPLIVTVVQQFHIGNGYVVI TITPSEGERYQGVVGLEGRIRRT RRIRHKQSARCYNLRFKPTCAIT QTTPTVSPVLKKQLVLPNPH YPGNKPNFKRVSVKIIGESASRR LQLSRGDIDIADALSDRFVSEAI TAKVEAAIKN*LSQYGILPEEW GGESQFVHVSAKAGTGIDELLA DAILLQAEVLELKA VRKGMAS GAVIEFPSLDKGRGPVVTVLV REGTLHKGDIVLCGFYGRVRA MRNELGQEVLEAGPSIPVEILGL SGVPAAGDEVTVVRDEKKARE VALYRQGKFREVKLARQQKSK LENMFANMTEGEVHEVNIVLK ADVQGSVEAISDSLLKLSTDEV KVKIIGSGVGGITETDATLAAAS NAILEGLFTLTSQDEFVIAPGFS TDPLEEQHSVVSGLLHKYHNR ALLLVKGGCAVNCRYCFRRHF PYAENQGNKRNWQTALEYVA AHPELDEMIFSGGDPLMAKDH ELDWLLTQVVHQHDVGRRVQ RLPFIHDALFHQQFFNQHTTF GQVHLARFFVHREVDLSILFRRIS VLKKMMSPHRVKDRCYCAQFI

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9204	39572	A	9263	922	2357	GKGNDEKKLVSDQ*MGTA*RQ RIHPIPSIPLW/YPEGPSVSRPE AGGYNSLLMVTHGK VINGGRG ILIESD\EPGDAR*SSGSCARHGL VFWLCSCRRCMPQTIEAIQHPN A/VAVNKIDRPEADPDRVKYVL SQYGILPEEWVGESQFVHGS AK AGTGIDELLDAILLQAEVLELK AVRKG MASGAVIESFLDKGRG PVATVLVREGTLHKGDIVLCGF EYGRVRAMRNELGQEVLEAGP SIPVEILGLSGVPAAGDEVTVVR DEKKAREVALYRQGGKFREVKL ARQQKSKLENMFANMTEGEVH EVNIVLKADVQGSVEAISDSLL KLSTDEVKVKIIGSGVG VIEAES LDLRYYSVIYNLIDEVKAAMSG MLSPELKQQIIGLAEVRDVFKSP KFGA IAGCMVTEGVVKRHNPIR VLRDNVVIYEGELES LR RFKDD VNEVRNGMECGIGVKNYNDVR TGDVIEVFEIIEIQR TIA
9205	39573	A	9264	1	748	
9206	39574	A	9265	923	1387	PPNLARCSPSAMARQSPIRSPRR PLAPSPALRAPSPAPPHAARLA VPRQA*GLLLLALIAVSTHIEMI SNTLAMGWNSPLTTVLALLAC GFACFIEMGKIPFDVAASWIIMI WSQSSTCTAPTLKPLRSVTLMR LTPVSARDLVGYFATAVRLP
9207	39575	A	9266	352	478	CDPTQRKPLYWLQALRRGLPI WRNQRFKAVR*MAMAPMFS
9208	39576	A	9267	54	811	HTTGGNPLYGI/SRQIAR*QSRV/ GPGFCQDYRDIHKLFRQEVAP TSSGLMFRLMPWVLIS SMLVLA MALPLFITVSPFAGGGDLITLIY LLALFRFFFALSGLDTGSPFAGV GASRELTGILVEPMLILSLLVL ALIAGSTHIEMISNTLAMGWNS PLTTVLALLACGFACFIEMGKIP FDVAEAEQELQEGPLTEYSGAG LALAKWGLGLKQVVMASLFV DLFLPFGRAQELSLACL TSLV VTLLKRL

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9209	39577	A	9268	2	627	CGSIIAL/VAIFKSFFGHYLGTL GLNGLVLKFGYKGDCTKVSLG KLNTISMIFIMGSTWVVAYANP NILDIEAMGAPIIASLLCLLPM YAIRKAPSLAKYRGRLDNVPH AITRVDLKEDGKGLKIVRQSLP YGTASGTHGLYFCAYCARLHNI EQQLLSMFGDTDAIKAYQSFLA RSAFAVSQCIPVNTVYRAYSVI QNWIAITIRHV
9210	39578	A	9269	2648	3072	LSRTGKTTFIT/LEYAASIIAL VAIFKSFFGHYLGTLGLNGLV LKFGYKGDCTKVSLGKLNTIS MIFIMGSTWVVAYANPNILDLI EAMGAPIIASLLCLLPMYAIRK APSLAKYRGRLDNVFVTIGLL TILNIVYKLF
9211	39579	A	9270	467	614	VPLAVPYGRLWRTIFSLPSSFR STRÆ*YESMLGRFFERTACLQ KQF
9212	39580	A	9271	1	846	MSYLVWPFIASLVLISLIPYW NSAVIDQVDLGLSALTGHGILI TVWGG\ISTK\VFPLNFPNVFSF G\VSK\RKK*KKDFGRDFTERKC SQIISRASMLMVAVVMFFAFSC LFTLSPANMAEAKAQNPVLSH LANHFASMTGKTTFSTILEYA ASIIALVAIFKSFFGHYLGTLG LNGLVLKFGYKGDCTKVSLGK LNTISMIFIMGSTWVVAYANPN ILDLIEAMGAPIIASLLCLLPMY AIRKAPSLAKYRGRLDNVFSTV IGLLTILNIVYQLF
9213	39581	A	9272	95	456	RAISMSFRMERPCCLSLPSSLCIS STRVTASSPLSGCSSCTLLWISW GRMVRNCNT/MQLQDLLLRA HLRPPMAKLLLEPAEGFPGTS CLLEAEPSTIRDVVLIASQPASQ PASQQGSQI
9214	39582	A	9273	1	1241	

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9215	39583	A	9274	3	1608	SRGFPRREFSGPSIKKKVDAPTQ AQWPVHAVITNSTYDGLLYNT DWIKQTLDVPSIHLDSAWVPYT HFHPIYQGKSGMSGERGAGKVI FEPQ* AHRMLAALSQGSLLILIKG EYDQEAFFSEAFMRHSPSSPSYPI GG\SVETAAAMLRGNPGKRLIN RSVERALHFRKEVQRLREESDG WFFDIWQPPQVDEAECWPVAP GEQWHGFNDADADHMFDPV KVTILTPGMDEQGNMSEEGIPA ALVAKFLDERGIVVEKTGPYNL LFLFSIGIDKTKAMGLLRGLTEF KRSYDLNLRKINMLPDLYAEDP DFYRNMRIQDLAQGIHSRRVTA SVSSGSQANQQVNFIDQSTAA LTLSPSGDITVTNTAPQYMTA TLQDKNGNPLKDKEITFSVPND VASKFSISNGGKGMTDSNGVAI ASLTGTLAGTHMIMARLANSN VSDAQPMTFVADKDRAVVVLQ TSKAEIIGNGVDETTLTATVKD PSNHPVAGITVNFTMPQEGVYA MSLEYIILTFIALNGSRMWINS REKRTQRND
9216	39584	A	9275	106	709	LRS AEDNDTREKNKQTNRS KLRLVETSGSPPTSSQTDP AF RYPKKY\CVEDCS\YRPE* PRITP DNRLLYGGGVVYGARD PDVVE RL VVPKLLKTFPQLK GVKIDYR WTGNFLLTSLRMP QYGR LDTNI YYMQGYSGH GVT CNHLAGRLI AELLRGDA ERF DAFANLPHYPF PGGRT LRVPFTTKSAAYY\SLR DRLGV
9217	39585	A	9276	140	558	RKPHRQRGEKAGNRNSVDGCC EKAMSVIIVGGMAGATLALAI SRLSHGALPVHLIEATAPESHA HPGFDGRAIALAAGTCQQLARI GVWQSLADCATAITTVHVS DR GHAGFGTLSRKITTWGL* QRSW ARWIWYPFAKNYHLGALT TVV ELQMGGKRLF
9218	39586	A	9277	3799	4086	
9219	39587	A	9278	3017	3184	
9220	39588	B	9279	1	1050	
9221	39589	B	9280	1	1455	
9222	39590	A	9281	374	506	RCIALIAWLTLPVLRVTLK* RW RVARR*RAACW*S*WH HSALAP
9223	39591	C	9282	47	406	

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9224	39592	A	9283	1	4749	
9225	39593	B	9284	507	3568	
9226	39594	A	9285	101	638	RQKYSWSSALVPTAGEPTRH TQTTRAGIAHA\EADFAADILFL LCGKDISTAGGFSFV*LADNKQ HLMPVCFANHLTVKM/PHQSPV PDH/QALISHRIRSSRGSCSRYS DNSVSRTPLSPTPGRSTMVIKCS PICRRKRKGSRVQAATSLTGDT SPANRALQRLLFPAPVLPMMPI TGS
9227	39595	A	9286	271	532	
9228	39596	A	9287	643	768	
9229	39597	A	9288	1	1948	MCSHAAGCTIPDVEHWTRINR KVPRLVSVLPNGPDYHPTVRAF LAGGVPEVMLHLRDLGLLHLD AMTVTGQTVGENLEWRPEPGA FRQCLREQDGVPEPDDVILPPEK AKAKGLTSTVCFPTGNIAPEGS VIKATAIDPSVVGEDGVYHHTG RVRVVFVSEAQAIAIKRVVIVA CGFSPTRTAHAASDIDITNTVDL RNRRSQLRRGEIVQF/IPANKYR TSA*GS*LAHPTGSLCD*VGRL DIPLAANFVQR*SPPGISPTPV
9230	39598	A	9289	2166	2426	VQPGGCGL*RQHGSYRPESRTA GGRHRG*RRLRRAFIDGGANSS GTGICRDAFNRIHWGTGRTP DVDSGEHRKTAEQRRDGAVR
9231	39599	A	9290	846	1022	

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9232	39600	A	9291	1	1336	MNALSKARQYVEEFDGNIA SFI FSGKPGTGKNHLAAAICNELL RERNLGESEIH TTS DHMVTATL PGETQTWPEDFRDVEQRQQVVI FQHLVGCVKVDGKYIQVCTFT VGGNYGGTCLRGDESLVIKES DIEPLIVVTVVQQFHIGNGYVVI TITPSEGERYQG VVGLEGRIRRT RRIRHKQSARCYNLRFKPTCAIT QTTPT EVSPVLKKQLVLPNPH YPGNKPNFKRVSVKIIGESASRR LQLSRGDIDIADALSDFVSEAI TAKVEAAIKN*LSQYGILPEEW GGESQFVHVSAGAGTGIDEL\A DAILLQAEVLELKAVRKG MAS GAVIESFLDKGRGPVATV LVRE GTLHKGDIVLCGFEYGRVRAM RNELGQEVLEAGPSIPVEILGLS GVPAAGDEVTVVRDEKKAREV ALYRQGKFREVKLARQQKSKL ENMFANMTEGEVHEVNIVLKA DVQGSVEAISDSLLKLSTDEVK VKIIGSGVGGITETDATLAAASN AILEGLFTLSQDEFVIAPGFST DPLEEQHSVVSGLLHKYHNRA LLL VKGGCAVNCRYCFRRHFP YAENQGNKRNWQTALEYVAA HPELDEMIFSGGDPLMAKDHEL DWLLTQVVHQHDVGRRVQRL PFIHDALFHQQFFNQHTTFGQ VHLARFFVHREVDSILFRISVL KKMMSPHRVKDRCYCAQFICP
9233	39601	B	9292	1	2890	
9234	39602	A	9293	1	822	ITQYCD SFTICLSKGLGTPVGS L LVGNRDYIKRAIRWRKMTGGG MRQSGILAAAGIYALKNNVAR LQEDHDNAAWMAEQ LRETG\A A\DV MRQDTNML\FVRVGEEN AAALGEIT*KP\RNVLINASPIV RLERDVPQRILVLGASGYIGQH LVRTL SQGHQILAAARHVDR LAKLQLANVSCHKVDLSWPDN LPALLQDIDTVYFLVHSMGEAA IYRSSAGVASVSSVFRYCLRPSY DPRVFPCLCCRALLVLPCLLIY SPLSFALVLSLAPIK
9235	39603	A	9294	1565	1825	SRMCVAIRSRNQSRCEITIAQPG NSSRAFSSARRVSISRSLVGSSSS SMLPPTCSSFARCRPRSPPESS PTRLP*STPLKLRPT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9236	39604	A	9295	236	742	VATRCRSRSPSPSLSPSLSLRVMIP TTSAYSFMITAKSSPAVLKLSN ASERVNVSGTISVLRICITPLFSA RLWLASTRFSRSLEST*PMMWS ISSLQTRNLECGCSATLFFRLCS SSWRSN/TNDVFTAVTLITERDG IPAQRRFQSARVPVYVTRPPAH RLPLPRRCHQK
9237	39605	B	9296	1	951	
9238	39606	B	9297	1	666	
9239	39607	A	9298	761	1162	IILGSMAIFTILILPIHEQGMFFHL FVTSFILLSSGL*FSLKRSFTSLV SCIPRYFILFVAIVNGSSLVIWLS VLLFVYRNACDFCTLLILYPETL LKLLISLRRFWAETLGFSKYTIM SSANRDNLTSFFPN
9240	39608	A	9299	82	160	
9241	39609	B	9300	64	477	
9242	39610	A	9301	408	507	LLPLFQNLLLVYSGI*LLPGLVW KGCMPGIYP
9243	39611	A	9302	1	3141	MLLGLHSLAAFLQRESFSGKQS WGCQLAALLQRRITKMTEAMK ITLSTQPADARWGEKATYSINN DGITLHLNGADDLGLIQRAARK IDGLGIKHVQLSGEGWDADRC WAFWQGYKAPKGTRKVVWPD LDDAQRQELDNRLMIIDWVRD TINAPAEELGPSQLAQRAVDLIS NVAGDRVITYRITKGEDLREQG YMGLHTVGRGERSPVLLALD YNPTGDKEAPVYACLLGDIITY RNGKKVEVMNTDAEGRVL
9244	39612	A	9303	1	983	MVRASGYLQTLDDFNHIVLKA SENGVPVYL RDVAKVQIGPEM RRGIAELNGEGEVAGGVILRS GKNAREVIAAVKDKLETLKSSL PEGVEIVTTYDRSQLIDRAIDNL SGKLLEEFIVVAVVCALFLWHV RSALVAIISLPLGLCIAFIVMHFQ GLNANIMSLGGIAIIVGAMVD AAIVMIENA/R*TAGRVAAPAS* RHAG**NALAGQEGRLFGPLAL HQNVCDDGGCGAAGDRSDPD GLLDPWQNSAGKQ*PAQSLFDS CLSSAVAESTALAENHAAGGG AFGADGSLAAQ*SSPGEFLPQIN EGDLLYMPCDAAQGIPQRRR
9245	39613	A	9304	362	436	
9246	39614	A	9305	101	208	
9247	39615	C	9306	1	882	
9248	39616	B	9307	1	822	